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Missouri
Botanical
Garden

JANUARY/
FEBRUARY
1999

ANNUAL ORCHID SHOW
Members' Preview Party January 29

VOLUME LXXXVII
NUMBER ONE

Comment

Missouri Botanical Garden Mission: "To Discover and Share Knowledge About Plants, In Order To Preserve and Enrich Life."

SINCE 1925, when the Board of Trustees purchased 1,300 acres of woods and farmland near Gray Summit, the future of the Garden has been interwoven with Shaw Arboretum. Originally acquired to provide refuge from air pollution for our priceless orchid collection, the Arboretum grew into a 2,400-acre nature preserve. Today it is a treasury of restored native Ozark habitats and plant communities, where people discover the wonders of nature and learn to value our environment.

Preserving the Arboretum's peaceful, rustic character while welcoming growing numbers of visitors is a challenge and a goal for the future. The new overnight educational center is an important step toward meeting the challenge, and on behalf of everyone at the Garden I extend our appreciation to the Dana Brown Foundation for helping to make the goal a reality.

Establishing a research program in Vietnam is another exciting milestone for the Garden. With support from the National Science Foundation, we are beginning to investigate the region's extraordinary biodiversity.

From low-tech to high-tech, Garden programs reach out to people and communities. Lots of good old fashioned elbow grease by staff and volunteers transforms vacant lots into neighborhood gardens and replants native prairie on former farmland. Meanwhile, with the click of a computer mouse, information compiled by Garden researchers and horticulturists is available on your desktop.

Winter may be a quiet time in most gardens, but we have a calendar filled with delightful events for family and friends. Come often!

— Peter H. Raven, Director

INFORMATION

24-Hour Information on Events:
GardenLine – 577-9400
24-hour recorded information about Garden events, hours, admission, and directions. Outside area 314, call 1-800-642-8842 toll free.

24-Hour Information on Gardening:
HortLine – (314) 776-5522
You will need a touch-tone telephone and a brochure listing the hundreds of HortLine messages to use this service. Request a brochure from the Kemper Center for Home Gardening at (314) 577-9440, or send a stamped, self-addressed envelope to HortLine at the address below.

24-Hour Employment/Volunteer Hotline:
(314) 577-9401
Information on jobs and volunteer opportunities at the Garden is available with a touch-tone phone. Listings are updated bi-weekly. or see the Garden Website, below.

Horticultural Answer Service: 577-5143
9:00 a.m. to noon, Monday through Friday.

Master Composter Hotline: (314)577-9555
9:00 a.m. to noon, Monday through Friday.

Visit the Garden on the World Wide Web:
http://www.mobot.org/

Mailing Address:
Missouri Botanical Garden
Post Office Box 299
St. Louis, Missouri 63166-0299
(314) 577-5100

Garden Hours
9 a.m. to 5 p.m. every day except Christmas;
9 a.m. to 8 p.m. Memorial Day through Labor Day. Grounds open 7 a.m. Wednesdays and Saturdays.

Shaw Arboretum
Shaw Arboretum is located in Gray Summit, Missouri, just 40 minutes west of St. Louis on I-44. Open seven days a week, 7 a.m. to one-half hour past sunset. Admission is free for Garden members. The Visitor Center is open 8 a.m. to 4:30 p.m. Monday through Friday, and 9 a.m. to 5 p.m. Saturday and Sunday. The Bascom Manor House open 11 a.m. to 3 p.m. daily through February, closed on Mondays. For information call (314) 451-3512.

The Missouri Botanical Garden and its Arboretum are for the enjoyment and education of visitors. To ensure the fulfillment of its mission and the enjoyment of its grounds, the Garden does not permit the circulation of petitions, picketing or other kinds of demonstrations on its grounds or the grounds of the Arboretum.

Organizations and individuals who wish to circulate petitions or to demonstrate, picket, or conduct similar activities will be directed to the public streets and sidewalks outside the grounds and directed not to block access or egress or in any other way present a hazard to visitors or others.

Moving?
Please remember to send us your new address.

To avoid missing any of your membership mailings, we need notification of your new address at least three weeks before you move. Please enclose the mailing label on the back cover of this Bulletin and mail to:

Bulletin
Missouri Botanical Garden
P.O. Box 299
St. Louis, MO 63166-0299

Your
Name: _____

Old Address:

Street _____

City _____

State _____ Zip _____

New Address:

Date effective: _____

Street _____

City _____

State _____ Zip _____

On the Cover

Colorful and exotic blooms are on display in the annual Orchid Show. – Photo by Jack Jennings

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, please call (314) 577-5118.

Postmaster: Please send address changes to: Bulletin, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

MISSOURI BOTANICAL
JAN 0 5 1999
GARDEN LIBRARY

EIGHT THOUSAND PEOPLE streamed through the Floral Display House for the opening afternoon of the Garden's first orchid show on Sunday, November 30, 1924. For 75 years, the exhibition of the Garden's magnificent orchid collection has been one of St. Louis's most popular events.

Orchids have long been prized for their beauty. The Orchidaceae has more than 20,000 species in over 700 genera, making it one of the largest of the world's more than 300 families of flowering plants. The Garden has about 10,000 plants representing some 3,500 species, varieties, and hybrids, including many rare and unusual species that are endangered or extinct in the wild.

The collection includes many rare and unusual species not found elsewhere in the United States.

History

Orchids were a favorite of Henry Shaw, the Garden's founder. At his death in 1899, the Garden's orchid collection, though small, was one of the most complete in the country. George H. Pring, the distinguished horticulturist, played a major role in developing the orchid collection into one of the world's finest during his 57-year career at the Garden. In 1923 Mr. Pring spent six months collecting plants in Colombia, returning with 40 burro loads, or some eight tons, of orchids. The Garden's first flower show devoted exclusively to orchids was held the following year.

Endangered in the Wild

Orchids are extremely vulnerable to extinction in nature. Wild populations are often overcollected, and many species are restricted to a specific habitat, dependent on a particular soil or pollinator. Since 1975, international trade in plants has been regulated by the Convention on International Trade in Endangered Species (CITES). The treaty works to control the movement of plants based on their degree of endangerment. All orchid species are protected by CITES, and today all of the Garden's plants are legally acquired from growers and researchers.

continued on next page

Live and In Color!

THE ANNUAL

Orchid SHOW

January 30 — March 14, 1999

Members' Preview January 29

The Garden's orchid extravaganzas have been thrilling audiences for 75 years.

Babs Wagner, the horticulturist who takes care of the Garden's orchid collection, at work backstage in the greenhouse.

TIM PARKER

ORCHID SHOW
continued from page 3

Pollution Threat

In the 1920s and '30s, St. Louis suffered severe air pollution as coal smoke blanketed the city, at times forcing cars to use headlights during daylight hours. The smoke pall threatened the survival of valuable trees and plants throughout the city, including the orchid collection. To deal with the crisis, in 1925 the Garden purchased 1,300 acres near Gray Summit, Missouri, which became Shaw Arboretum. Construction began immediately on a range of greenhouses, and all 15,000 orchid plants were moved to the Arboretum by the end of 1926.

At this time the Garden's collection was considered by many to be the finest of any public institution in the world. An ambitious breeding program began in 1927, producing many superior hybrids, and the collection continued to grow and improve into the 1950s. Cut flower sales alone provided all of the Arboretum's operating costs.

Meanwhile, smoke abatement ordinances passed in the late 1930s improved the air in St. Louis. In 1958 the decision was made to move the orchid collection back to the city, making it more accessible to visitors and research staff. Of the 60,000 mature plants housed at the Arboretum, only 25,000 could be retained in the smaller facilities at the Garden.

While no longer the world's largest, the Garden's collection remains outstanding for its diversity, including many rare and unusual species not found elsewhere in the United States. Garden botanists have added many species to the collection from their explorations in Africa, Central and South America, and recently in Vietnam, including some exciting finds that may be new to science.

Over the years, donations of plants from private orchid enthusiasts have strengthened the Garden's collection. A recent gift of outstanding *Paphiopedilum* species and hybrids from Dr. and Mrs. Thomas Kukla will be part of this year's spectacular orchid show.

Dana Brown Foundation

A MAGNIFICENT GIFT OF $1 MILLION from the Dana Brown Foundation to support construction of an overnight educational center at Shaw Arboretum was announced in November. Ground will be broken next spring for the new facility. The cluster of four sleeping cabins and an assembly building will provide accommodations for 65 children or smaller groups of adults.

The structures will all be restored 19th century buildings, in harmony with the Arboretum's rustic, rural environment. The Adlyne Freund Education Center, which was refurbished last year as a dining and meeting facility, will operate in conjunction with the overnight center and continue to be used independently as well.

Studying the simple wonders of nature teaches appreciation for our environment.

The Dana Brown Foundation Overnight Educational Center is a major component of the Arboretum's 1990 Master Plan. Located near the prairie, woodlands, wetlands, and Meramec River, the Center will provide new opportunities for in-depth ecological field studies. Through scientific investigations, participants will gain understanding of the interactions among plants, animals, and people.

"In today's world, many children and adults have little chance to experience the simple wonders of nature," said John Behrer, director of Shaw Arboretum. "We replace the nightly news with fireflies, and video games with singing frogs or the hooting of an owl. Hearing a whip-poor-will or observing a dew-covered spider web certainly nurtures appreciation for our environment on a more meaningful level. We are extremely grateful to the Dana Brown Foundation for helping to make these experiences possible."

Historic Buildings

In keeping with the Arboretum's policy of environmental responsibility and preserving our historic connections to the land, all structures for the Dana Brown Foundation Educational Center are recycled 19th century buildings from farms in the surrounding region. Three log cabins and a timberframe house and barn have been dismantled and stored and will be professionally rebuilt at the Arboretum.

All of the structures were built between 1820 and 1890, mainly of oak trees felled while clearing the land for farming. Most of the buildings were erected by German settlers using time honored methods and craftsmanship. The search is still underway to locate a 19th century building to serve as the shower/restroom facility.

"The log cabins will fit nicely into the Arboretum's rural setting," said David Hicks, the Arboretum's master carpenter. "These structures show clearly the direct dependence their builders had on the land and its natural resources. By reusing these historic buildings, we are saving a part of our past and practicing sustainability, too."

Representing Mercantile Trust Company, trustees for the Dana Brown Foundation, are Edward D. Higgins, president (left) and Sally A. Hopson, vice-president. They are shown presenting a check to Peter Raven for the new Dana Brown Foundation Overnight Educational Center.

TIM PARKER

Names New Overnight Educational Center

The Environmental Support Complex

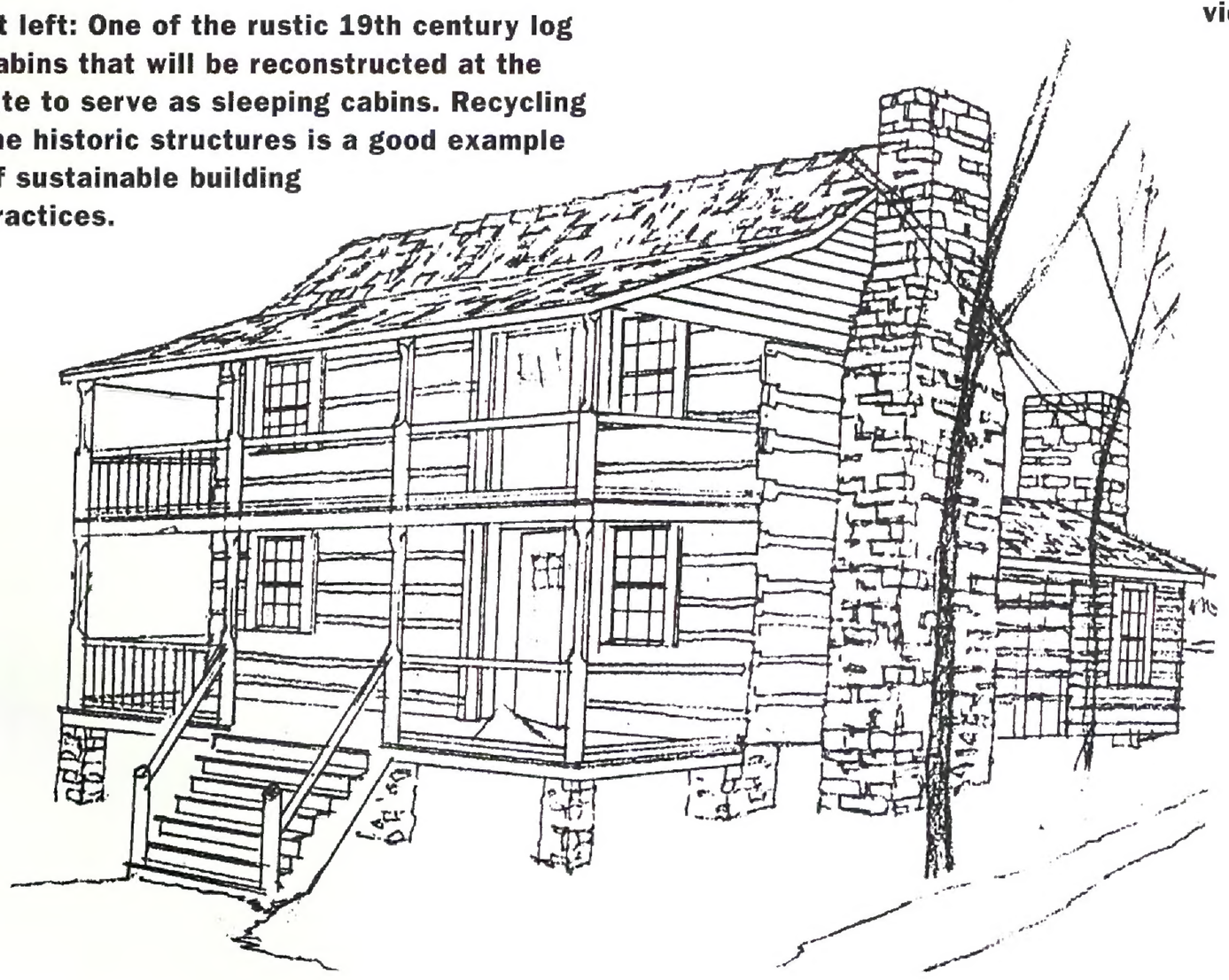
As outlined in the Master Plan, the Arboretum's current facilities, originally constructed in 1927, need extensive renovation and modernization to support expanding activities and programs. By restoring the original brick structures and using environmentally appropriate building practices and materials, the project will support the Garden's commitment to sustainability while providing efficient work areas for staff and volunteers.

Gift Opportunites

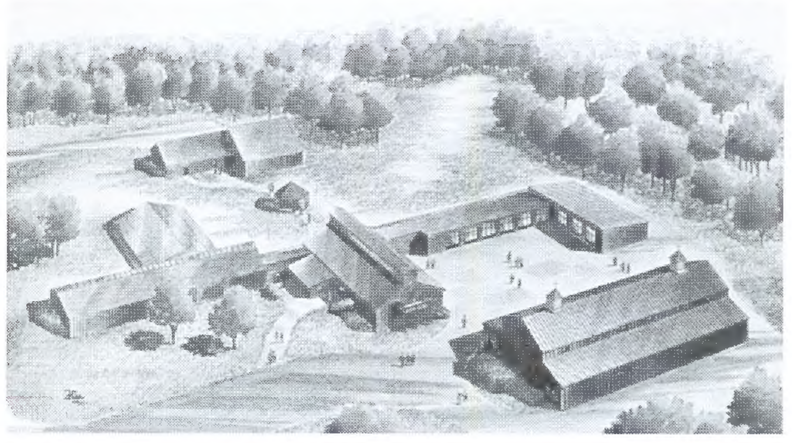
Funding is still being sought to support construction and continuing upkeep for three of the four cabins at the overnight education center and for the Environmental Support Complex. For more information on naming and giving opportunities, please call Patricia Arnold, director of development, at (314) 577-5120.

At the Dana Brown Foundation Educational Center, above, children and adults will participate in educational programs to learn about nature and the environment. It will be a place where "the nightly news is replaced with fireflies, and video games with singing frogs or the hooting of an owl."

At left: One of the rustic 19th century log cabins that will be reconstructed at the site to serve as sleeping cabins. Recycling the historic structures is a good example of sustainable building practices.



MICHAEL HAYNES



Above: A proposed new Environmental Support Complex is another major component of the Arboretum Master Plan.

Henry Shaw Medals Presented to Shoenberg and Swaminathan

AT the Garden's annual Henry Shaw Dinner on October 22, 1998, the Henry Shaw Medal was presented to Sydney M. Shoenberg, Jr. and Dr. M. S. Swaminathan. Dr. Swaminathan, one of the world's most distinguished plant scientists, was profiled in the November/December 1998 *Bulletin*.

TIM PARKER

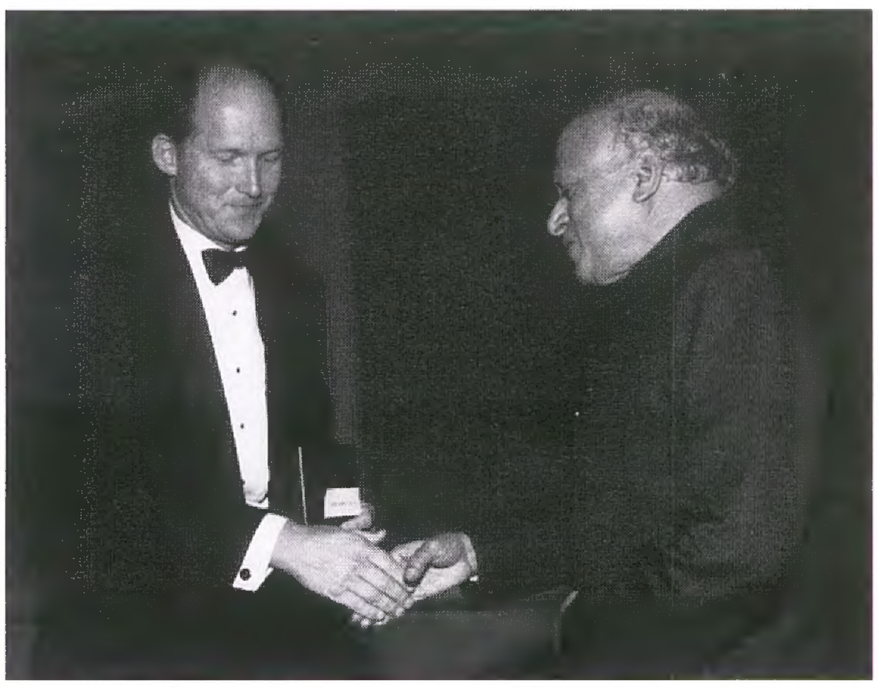
Sydney Shoenberg displays his Henry Shaw Medal. The Garden's highest award has been presented since 1893.

Sydney M. Shoenberg, Jr. has been a member of the Missouri Botanical Garden Board of Trustees since 1972. During this time of unparalleled growth at the Garden, Mr. Shoenberg has given unstintingly of his time and energy to support the development of the Garden and its programs.

Gifts from the Shoenberg family and Foundation have enhanced the Garden throughout the past decades. Visitors enjoy performances in the Shoenberg Auditorium and delight in the beauty of the Shoenberg Fountains. The magnificent Shoenberg Temperate House is a showcase for the Garden's outstanding collection of plants native to warm, Mediterranean climates. The Shoenberg Administration Building at the south end of the Garden includes Henry Shaw's 1851 townhouse, which was moved to the Garden in 1891.

As an officer of the Shoenberg Foundation, Sydney Shoenberg has been a leader in providing generous support for the Garden and many other St. Louis institutions. During his tenure on the Garden's Board of Trustees, Mr. Shoenberg has provided guidance and major support for each of the Garden's capital fund campaigns over the past 26 years and has contributed countless hours of his time and counsel. He also serves on the Board of Directors of Barnes-Jewish Hospital, where the Shoenberg family has provided major support for three buildings and fostered development of three endowed chairs currently held at the hospital.

In his work and public service, Sydney Shoenberg has made an extraordinary contribution to the quality of life in St. Louis. Millions of people have benefitted from his dedication and philanthropy, and his tradition of civic spirt stands as an example to future generations.



TIM PARKER

David W. Kemper, left, president of the Board of Trustees, presented the Henry Shaw Medal to Dr. M.S. Swaminathan.

Shop Sets Holiday Sales Records

The Garden Gate Shop had a complete makeover this year. Stop in soon – or you might miss something!

With sparkling new displays and a bright, open floor plan, the Garden Gate Shop posted record sales this holiday season. One reason is the exclusive new merchandise available nowhere else in St. Louis. The Shop now features unusual imports and handmade items from around the world and a commitment to personal service.

"Everything we do is dedicated to creating a wonderful shopping experience for Garden members and visitors," said Kimberlee Riley, manager of the Shop. "All proceeds from the Garden Gate Shop benefit the Garden, and we want our customers to benefit from shopping here."

Watch for new and exclusive items arriving weekly. And remember — Garden members receive ten percent off all purchases in the Shop every day. See page 21.

The Prairie Comes Home

Replanting the Arboretum with native seed

AS YOU WALK THE ACRES OF PRAIRIE at Shaw Arboretum or explore the Whitmire Wildflower Garden, listen to the wind rustle the stems of native grasses and wildflowers. Millions of acres of prairie once covered this part of the world, but most of our native grasslands have long since been lost to the plow and the bulldozer. Shaw Arboretum is no exception — much of its 2,400 acres are reclaimed farmland. Where did the thousands of native plants come from?

For nearly two decades, the staff and volunteers at Shaw Arboretum have gathered, processed, and stored about 200 pounds of seed every year from some 250 different native species. Scott Woodbury, a horticulturist at the Arboretum, works with the volunteers, assisted by staff members Matt Broderick and Terri Brandt. Scott said, "Preserving and increasing our supply of native plants is hard work, but it's fun and satisfying, too."

In the late summer and autumn each year, about 25 volunteers fan out for 50 miles around the Arboretum, visiting sites on public right-of-ways and on private lands with permission. They gather seed heads of prairie plants and native wildflowers by hand, being careful not to deplete populations.

This year the staff will sow native seed over 20 acres adjacent to the constructed wetlands and wildflower areas of the Arboretum. In addition to habitat restoration, the Arboretum also sells prairie seed and shares information and seed with other conservation organizations.

Safeguarding Endangered Plants

Seeds of rare plants are collected the same way as prairie species, although in much smaller quantities. Twenty-one rare and endangered plants of our Midwest region are under protection at the Garden, which is one of the Participating Institutions of the Center for Plant Conservation, a national consortium with its headquarters at the Garden. Dr. Kimberlie McCue, the Garden's conservation biologist, stores rare seed as a safeguard against extinction in the wild. She also uses seed for research, restoration projects, and to propagate endangered plants for educational displays.

This year, Dr. McCue and Arboretum staff established a new seed processing center, which they share. The Arboretum provided a 400-square-foot work space and installed Dr. McCue's equipment, including a growth chamber, storage freezer, and dissecting microscope.

Processing Seed

In the work room, ripened seed heads, capsules, spikes, or clusters are carefully treated to produce clean seed. Depending on the plant, seed heads are ground, stomped, clipped, dried, or threshed to release the seed. Some must be shaken off the stems on a still day, or tossed in the wind to blow off the chaff, or set in the sun to chase off weevils, as done in ancient times.

Most often, seed is cleaned by passing it through small hand-held screens or an old winnowing machine on loan from a local farmer. Once cleaned, seed is stored in the freezer, which keeps it viable for several years.

Top: Gathering seed by hand from small populations of native plants is a painstaking annual process.

Above: Staff and volunteers clean and store about 200 pounds of seed from some 250 native species in the conservation work room each year.

Habitat restoration and species conservation at Shaw Arboretum help to preserve Missouri's natural heritage. Watch for the Spring Wildflower Sale and other activities at the Arboretum to learn more. To volunteer, see page 10.

—With Scott Woodbury, Shaw Arboretum horticulturist, and Kimberlie McCue, Ph. D., MBG conservation biologist

Gardening • Home Computer

COMPUTER GARDENING

FEW TECHNOLOGICAL developments have changed our lives as rapidly as the Internet. In less than five years it has revolutionized how we share, find, and think about information. Don't be intimidated! The resources available via computer can make you a better gardener, and it's fun, too. And the Kemper Center is a great place to get started.

The World's Largest Library

Think of the Internet as an immense library on your desktop. As in a library, you can browse for information, open a "book," or flip through a "magazine," all by clicking your mouse. Clicking on highlighted words, "links" or "buttons" makes following an interest fun and productive.

Directories and Lists

A good way to start exploring the Internet is to use directories that categorize information for you. Directories can be found in any number of locations, including some of the top search engines, such as Yahoo and Lycos. It's like using a categorized index.

Gardening is often found under Lifestyles, Living, Hobbies, Recreation or Entertainment. At the Mining Company home page, (www.miningco.com), follow the link under "Living" to find lists of gardening sites. When you find a good list or site, be sure to create a bookmark as a favorite or you risk *never* finding it again.

Specific Topics

You can type a keyword into a search engine, which will then search the Internet for articles about your word or topic. For a listing of over 400 general and specific search engines, visit All-in-One (www.albany.net/allinone/). Type in a word and click on "search". It's that easy.

For best results, use specific

continued on page 9

At the Kemper Center

You can find the information below on the visitors' computer terminal at the Kemper Center. It's easy and fun, and Master Gardeners are on hand to help.

PlantFinder

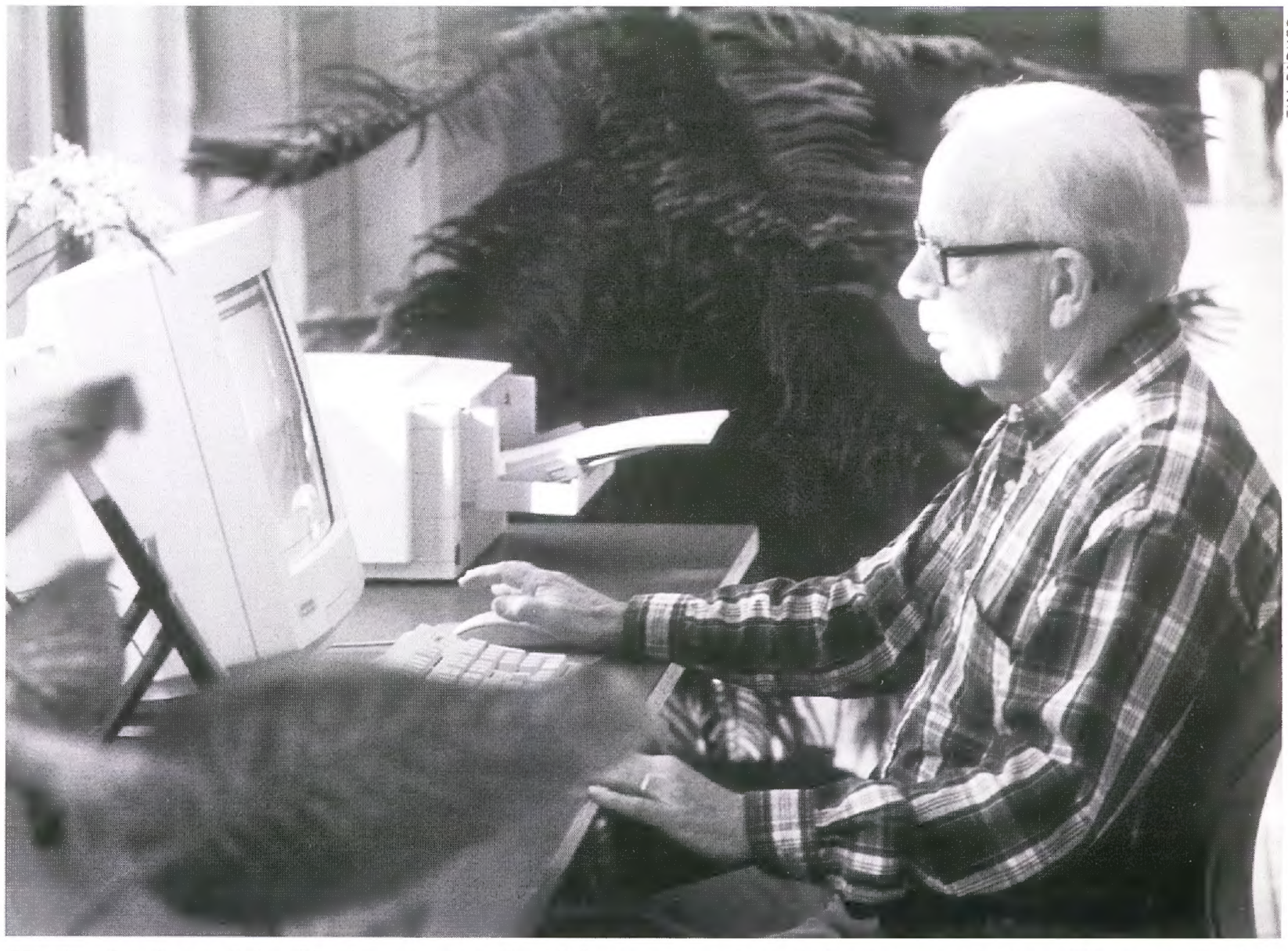
A comprehensive database of over 1,400 plants that grow in the Kemper Center demonstration gardens. Search by scientific or common name, a special Kemper code number, by each garden's name, or by plant characteristics. A great way to get the details on the plants and make selections for your own garden. Allows access to information on what was in bloom throughout the Garden each week since August of 1995.

PestSelector

Find both chemical and nonchemical recommendations for controlling insects, diseases, weeds and garden animals, based on pesticide label information.

NurseryTracker

Information on nurseries, garden centers, and plant care companies in Missouri and southern Illinois. See what services and plant material a company stocks, or search for companies that meet your specific needs.



TIM PARKER

Master Gardener John Stephens using the visitors' computer at the Kemper Center. When you find what you need, print it out to take home.

On the Garden's Web Site
www.mobot.org

Available 24 hours a day.

Plants in Bloom
www.mobot.org/mobot/bloom/bloom.html

See what is currently in bloom at the Garden.

Garden Tours
www.mobot.org/mobot/hort

Tours of Garden features, as well as links to all the above Internet programs, are available on the Garden's home page under Horticulture.

HortLine
www.mobot.org/mobot/hort/hortline

Text of over 300 messages available through the Center for Home Gardening's 24-hour automated phone system. Excellent, to-the-point information on a wide variety of gardening topics especially relevant for St. Louis gardeners.

Horticulture Database
www.mobot.org/mobot/hort/hort.html

A comprehensive list of all the plants growing at the Garden.

Integrated Pest Management Strategies
www.mobot.org/mobot/hort/ipm

How to identify and control 80 of the most common problems with insects, diseases, and weeds in St. Louis. Recommendations begin with the simplest and least invasive techniques and go on to more aggressive strategies and chemical methods.

Retail Nursery Catalogs – COMING SOON!
www.mobot.org/mobot/hort

A terrific resource, with links to over 130 retail nurseries nationwide.

Top Sites on the Internet

Recommended by the MBG Horticulture Answer Service. All contain links to other great sources.

Aboriculture On-line **www.ag.uiuc.edu/~isa/**

Cornell University: Biological Control
www.nysaes.cornell.edu/ent/biocontrol/

The Dillon Garden **homepage.tinet.ie/~hdillon/**

Internet Directory for Botany
www.helsinki.fi/kmus/botmenu.html

Internet Resources for Gardeners
www.gardenweb.com/spdrsweb/

The Lawn Institute **www.lawninstitute.com/**

Missouri Department of Conservation
www.conservation.state.mo.us/

Missouri Outreach & Extension **www.outreach.missouri.edu/**

Netherlands FlowerBulb Information Center
www.bulb.com/index.html

Ohio State University **www.hcs.ohio-state.edu/Factsheet.html**

Purdue University: Plant & Pest Diagnostic Laboratory
www.ppdl.purdue.edu/ppdl/

Rose Resource **www.rose.org/**

and unique keywords. For example, recently we had a new soft drink that contained a fruit we had never heard of, called guarana. A search for the word "guarana" yielded the answer. There was even a home page devoted to guarana!

Search engines often are better choices than directories when you are looking for an answer to a specific question. Check for help or advanced search information at the search engine site. Some allow for very complex searches. Two search engines that we like are AltaVista and Lycos.

New Booklet Lists Kemper Center Plantings

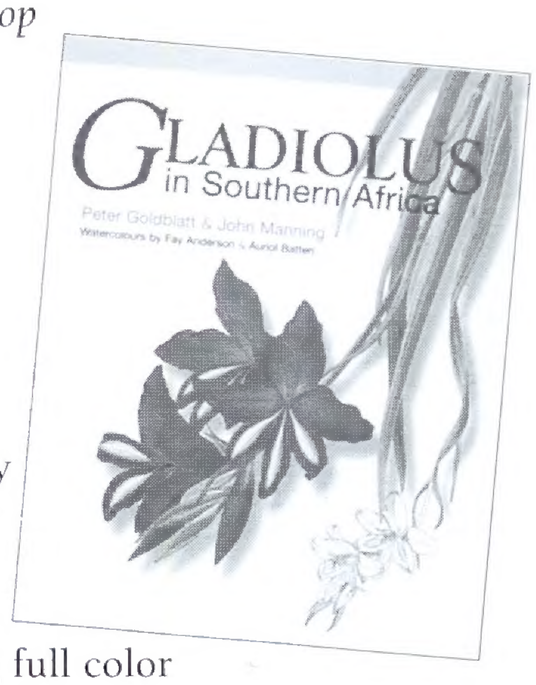
For visitors who don't use computers, and even for those who do, the Kemper Center has produced a dandy little reference booklet, *Demonstration Gardens Plant List by Garden*. This is a garden-by-garden list of the plants you will see growing in the Kemper Center's 23 outdoor demonstration gardens.

Available at the Kemper Center for $2.75 members, $3.00 non-members.

New Books of Interest

Available in the Garden Gate Shop

Gladiolus in Southern Africa



Peter Goldblatt (MBG) and John Manning
Illustrated by Fay Anderson and Auriol Batten
Fernwood Press, Cape Town

A collaboration of two highly respected biologists (Goldblatt is a Garden curator) and two of the world's foremost botanical illustrators. Stunning full color paintings and exquisite line drawings capture the fragile elegance of 163 species of *Gladiolus*. This monumental work will become the major botanical reference for an important and very beautiful genus.

Steyermark's Flora of Missouri, Volume 1

Revised edition by George Yatskievych
MBG Press and Missouri Department of Conservation

A landmark work, ten years in the making, with 1,000 lavishly illustrated pages. See the November/December 1998 issue of the *Bulletin*. Booksigning February 25 — see page 13 of this issue.

Seven New Titles from MBG Press

MBG Press, the Garden's scientific publications department, has seven new titles in the Garden Gate Shop. While these books are written by and for scientists, many will be of interest to the general reader.

Directory of Regional Plant Societies

African Violet Council
Vera Eaklor 351-4365

American Orchid Society (Mid-America Regional Judging Committee) David Brown 727-2385

Belleville Area Rose Society ..... (618) 233-4609
Dennis Nelson http://users.accessus.net/~rosenut

Bonsai Society of Greater St. Louis
Bob Harris 352-0817

Boxwood Society of the Midwest
Sheila Hoffmeister 846-8430

Dahlia Society of Greater St. Louis
Ellis Evans 843-3767

Federated Garden Clubs of Missouri, Inc.
June M. Kummer 821-5075

Gardeners of America (Ozark Region)
Russell McClellan 837-2470

Gardeners of Metro East (GotMe)
Dawn Cordle ..... (618) 345-2194

Gateway West Gesneriad Society
Gary Dunlap ..... (314) 789-3604

Greater St. Louis Daylily Society
Arlie Tempel 521-2171

Greater St. Louis Iris Society
Jim Loveland 349-4977

Henry Shaw Cactus Society
Pat Thomann 773-2931

Metro East Herb Club
Joyce Wells ..... (618) 235-4853

Mid-America Regional Lily Society
Fred Winterowd 423-5313

Missouri Botanical Garden Daylily Society
Mirko Bolanovich 965-7471

Missouri Mycological Society
Ken Gilberg 458-1458

Missouri Native Plant Society
George Yatskievych 577-9522

Missouri Orchid Society
Ron Taube 961-0577

North American Rock Garden Society
William Walley 382-7339

O'Fallon Iris Society
Vince Italian 739-3481

Orchid Society of Greater St. Louis
Ann Rogers 441-9502

Rose Society of Greater St. Louis
Phil Schorr 843-8493

St. Louis Carnivorous Plant Society
Susan Farrington 577-9402

St. Louis Herb Society
Pat Leigh 230-6213

St. Louis Horticultural Society
Mindy Keyser 421-6610 x236

St. Louis Hosta Society
Mirko Bolanovich 965-7471

St. Louis Water Garden Society
Sue Blumm 894-7609

West County Daylily Club
Chic Buehrig 389-8261

Published twice a year, in the January and July issues of the *Bulletin*. To change your listing, call (314) 577-5141.

Volunteers — We Need You!

For information on all volunteer opportunities, including those listed here, call Jeanne McGilligan at (314) 577-5187.

At the Garden

Volunteer Instructors

Teach classes to children, indoors and out, weekdays beginning in March. Training begins late January.

New — Volunteer Interpreters

Interpreters will be located throughout the Garden on weekends to present basic science topics to visitors and answer questions. Training sessions begin January 30.

Horticulture Open House March 3, 1999

5:30 to 7:30 p.m., Ridgway Center

Meet staff supervisors from the Horticulture Division and discuss opportunities to help with planting, pruning, mulching, and general maintenance on Garden grounds. Light refreshments will be served. Please call 577-5187 if you would like to attend.

At Litzsinger Road Ecology Center

Master Ecologists

Assist staff during field study sessions, working with small groups of children or adults. Training sessions begin February 22. Volunteers are required to complete the course plus 50 hours of service. For more information call (314) 577-9424.

Summer Job for High School Students – Ecological Restoration Corps

A four-week summer job and learning experience for motivated high school students. Participants work outdoors at LREC, earning money restoring native plant communities. Includes field trips to learn about environmental issues and career options in natural resource management and environmental science. For more information call 577-9424.

At Shaw Arboretum

Wilderness Wagon Tour Guides

Drive the Wilderness Wagon around the three-mile loop road and narrate tours on weekends in spring and fall. Training sessions will be held in March at the Arboretum. For more information, call (314) 451-3512.

Teacher Naturalists

Help lead outdoor classes for school children during the week. Some knowledge of ecology and natural history is helpful but not necessary. Training begins in February. For more information, call (314) 451-3512.

Glade Restoration Work Days

Four Saturdays: January 23, February 6 and 27, March 13

Clearing overgrown glades at Shaw Arboretum is a continuing process that is restoring native plant communities, part of Missouri's priceless natural heritage. The work is heavy and dirty but the rewards are great! Please call 451-3512 during the week preceding each work session.

Neighborhood children help Garden leader Eric Ahern build raised beds at Forest Park Southeast Garden.

Neighborhood Gardens – Rooting Communities Together

GATEWAY GREENING, a community service organization based at the Missouri Botanical Garden, helps community groups develop gardening projects to improve urban neighborhoods. In 1998, Gateway Greening worked 13 new neighborhood greening projects and helped to expand seven existing gardens.

Commitment is the cornerstone for success in Gateway's 94 active projects. Neighbors work together to conceive, plan, install, and maintain their gardens. Last fall Gateway received more than 40 applications for projects to transform abandoned land into attractive, flourishing hubs of activity. Here are a few of the success stories changing the face of St. Louis.

Block Unit 1035 Community Garden

On abandoned land across from Hamilton School, an Urban League group built 27 vegetable plots bordered with paths and lush stands of perennials. Today the site is a gathering place for workday barbeques.

Lafayette Square Neighborhood

Neighbors have transformed a highly visible but neglected corner with plots of vegetables and herbs with ornamental borders. Undaunted by rock-hard soils, they dug post holes to build a picket fence and a massive arbor.

The Stonewalls Garden

Beds of perennials blooming beneath a frog by sculptor Bob Cassilly have transformed this vacant corner in South St. Louis.

Dogtown Community Garden

Neighbors moved a gazebo into their garden and created a mix of vegetable and ornamental plantings.

Maffit Cabbage Patch

In the West End, experienced community gardeners worked with teachers from Laclede School to expand their garden, and they plan to expand it again onto an adjacent lot. The new garden has vegetable plots lavishly interplanted with flowers.

Forest Park Southeast

This tiny, cozy nook of a garden filled with plants and vegetable plots has transformed a former trash-filled lot. Last fall the group added a wrought iron entrance arbor with benches.

If You Want To Help

For more information on supporting neighborhood gardening efforts or to volunteer, please call Gateway Greening at (314) 577-9484.

From left: Master Gardener Tom Hardy, with Mildred Ruffin and Bobbie Harrington at the Bell Garden.

Below: An early spring work day at Forest Park Southeast Garden.

Gateway Greening is grateful for major support from the following organizations: Community Development Agency, City of St. Louis; Federated Garden Clubs of Missouri; Edward Jones, Inc.; Garden Club of St. Louis; Garden Club of Ladue; Gateway Foundation; Greater St. Louis Daylily Society; William T. Kemper Foundation; St. Louis Master Gardeners; Missouri Botanical Garden; Treeland; St. Louis Composting; Bowood Farms; Whitaker Foundation; Webb Foundation; Sign of the Arrow.

Calendar

January 13 Wednesday

"Splendor in the Garden" Exhibit

9 a.m. to 5 p.m. daily through March 5. Paintings by St. Louis artist Lucia Boles. Free with Garden admission.

January 15

Martin Luther King Jr. Birthday Holiday Commemoration

1 p.m., Shoenberg Auditorium. Commemorate the birthday of Dr. Martin Luther King, Jr. with a special presentation and booksigning by St. Louis author Ronice Branding, who will discuss her recent publication *Fulfilling the Dream*. Her book offers insight into the legacy of King 30 years after his death, confronting the continuing challenge of the reality of racism. This and other publications from the Chalice Press of St. Louis will be featured in the Garden Gate Shop throughout the King holiday weekend. Free with Garden admission.

January 16 Saturday

New! Story Time for Children

11 a.m., Garden Gate Shop. On the third Saturday of every month, stop in the book department, listen to a great book or two, and make something fun to take home. For children ages 4 to 10, younger children must be accompanied by an adult. Free.

January 29 Friday

Members' Preview: Orchid Show

5 to 8 p.m., Ridgway Center. Get the first look at "Beauty & the Beast," plus a special 20 percent discount in the Garden Gate Shop. Entertainment, cash bar. Dinner buffet will be available in the Gardenview Restaurant at $10.95 per person, no reservations. Free, for members only.

February 2 Tuesday

Images of Asia

7 p.m., Shoenberg Auditorium. Patricia Graham, former curator of Asian Art at the Saint Louis Art Museum will present a slide lecture on folk art as a unique expression of Japanese cultural values. Presented in memory of Betty McIntire, longtime Garden volunteer and secretary to the Japanese Activities Committee with whom we coordinate the annual Japanese Festival. Co-sponsored by the Garden and the Asian Arts Society. Free.

February 6 Saturday

Tropics Two!

8 p.m. to midnight, Ridgway Center. Sponsored by Young Friends of the Missouri Botanical Garden. See page 14 for details.

January 30 — March 14

Annual Orchid Show: "Beauty & the Beast"

9 a.m. to 5 p.m. daily, Orthwein Floral Display Hall. Dinosaurs prowl the rain forest once again, lurking amid hundreds of colorful blooming orchids. Featuring spectacular plants including some of the rare and unusual species from the Garden's award-winning collection. Flower show admission (in addition to Garden admission): $2 adults, $1 seniors age 65 and older, free to children age 12 and under. Free to members.
Members' Preview party: see January 29.

Date To Be Announced —
Call 577-9400 for information

Fossil Frolic

9 a.m. to 5 p.m. daily, Ridgway Center. A fun way to learn about archeology and the Ice Age in Missouri. See fossilized plants, amber, and petrified wood. Touch dinosaur tracks, teeth, claws, and bones, and discover real fossils in a sandbox dig. Free with Garden admission.

February 14 Sunday

Celebrate the Gospel

3 p.m., Shoenberg Auditorium. Our ninth annual Gospel event has been expanded to two Sunday afternoons in response to overwhelming demand (see February 21). Today's concert features choirs from the Clayton Missionary Baptist Church and St. Alphonsus "Rock" Church. Free with Garden admission. Seating is limited.

February 14 Sunday

Members' Valentine Dinner Dance

7 to 11 p.m., Ridgway Center. See page 14 for details.

February 20 Saturday

Story Time for Children

11 a.m., Garden Gate Shop. See January 16 for details.

February 20 & 21 Saturday & Sunday

Sugared & Spiced & Everything Iced"

9 a.m. to 5 p.m. daily, Monsanto Hall. Cake decorating display and demonstrations featuring exquisite hand-crafted botanical decorations and wedding cake designs. Watch local decorators demonstrate their craft and learn how to add finishing touches to your own sweet creations. Free with Garden admission.

Members' Days

On Members' Days, Garden members receive free tram rides, additional discounts in the Garden Gate Shop, and 10% off in the Gardenview Restaurant.

January 20 Wednesday

Gardens at Home and Abroad

11 a.m., Shoenberg Auditorium. Clarissa Start, columnist for the St. Louis Post-Dispatch, offers a look at the wonderful gardens of Greece and Italy she visited on recent European travels, and some special St. Louis gardens as well. In the Garden Gate Shop, take an ddditional five percent discount on "Gardens of the World" books and on the *National Geographic Guide to America's Public Gardens*. Seating is on a first-come, first-served basis. Free, for members only.

February 13 Saturday

Parsley, Sage, Rosemary & Thyme

11 a.m., Shoenberg Auditorium. Cathy Crandall of Mountain Magic presents a fascinating look at the traditional and modern uses of common garden herbs. In the Garden Gate Shop, take an additional five percent discount on herb plants, topiaries, and books. Seating is on a first-come, first-served basis. Free, for members only.

February 21 Sunday

Celebrate the Gospel

3 p.m., Shoenberg Auditorium. Today's concert features choirs from the Corinthian Baptist Church and the Antioch Baptist Church. Free with Garden admission. Seating is limited. See February 14.

February 25 Thursday

Monsanto Center Open House and Flora of Missouri Lecture & Booksigning

Open house 5 to 7 p.m., followed by lecture and booksigning at 7 p.m., at The Monsanto Center, 4500 Shaw. Get a glimpse behind the scenes at the Garden's new research center. Then celebrate the new edition of *Steyermark's Flora of Missouri*, a co-publication of MBG Press and the Missouri Department of Conservation. The author, Dr. George Yatskievych, will lecture on "Historical Perspectives on the Flora of Missouri" and sign copies of the book. Park at The Monsanto Center, or park at the Garden and take the shuttle. Free, for members only.

February 28 Sunday

Barbara Fairchild in Concert

2 p.m., Shoenberg Auditorium. Two-time Grammy award nominee and one of Branson's perennial favorite stars entertains at the Garden. Receive two-for-one admission to the Garden with your concert ticket stub the day of the concert. A dollar of each ticket price will help purchase Beanie Babies for patients at St. Louis Children's Hospital. Sponsored by Missouri Botanical Garden, the St. Louis Times, and All About Travel. For concert tickets and information, call the St.Louis Times, (314) 997-1212. $13.95 per person.

Winter Tram Schedule

During January and February, public tram tours will run Monday through Saturday at 10 a.m., 10:30 a.m., 2 p.m. and 2:30 p.m. Tram service is subject to change without notice, depending on the weather.

Winter Hours at Arboretum

January through February, the Joseph H. Bascom Manor House at Shaw Arboretum will be open 11 a.m. to 3 p.m., Tuesday through Sunday. The Manor House is closed on Mondays.

Members

TIM PARKER

"A Garden of Gems"

Antoinette's Jewelry in Ladue welcomed 150 Garden members and guests to a lovely cocktail reception on November 4. Proceeds from the evening will benefit the Membership Services Desk in the Ridgway Center. Our warmest appreciation to Antoinette's for their support of the Garden.

Shown at the party, from left: Mrs. William Rowe, Jr., co-chair; Lawton Levy, owner of Antoinette's; and Mrs. James A. Breckenridge, co-chair.

1999 Members' Days – Mark Your Calendar

January 20 Wednesday	*Gardens at Home and Abroad*
February 13 Saturday	*Parsley, Sage, Rosemary & Thyme*
March 16 Tuesday	*Caring for Your Trees*
April 8 Thursday	*Gardening in Missouri*
May 28 Friday	*Rose Evening*
June 4 Friday	*Members' Musical Evening*
July 8 Thursday	*Garden Photography*
July 9 Friday	*Early Morning Photo Workshop*
August 18 Wednesday	*To Be Announced*
September 23 Thursday	*A Step Back in Time*
October 16 Saturday	*Autumn at the Arboretum*
November 18 Thursday	*Holiday Decorating*
December 18 Sunday	*Members' Holiday Concert*

Young Friends Sponsor "Tropics Two"

Saturday, February 6 — 8 p.m. to midnight, in the Ridgway Center.

Young Friends of the Missouri Botanical Garden throw a tropical winter party for ages 25 to 40. Tango to the sounds of the Melvin Turnage Band and celebrate with cocktails, hors d'oeuvres, and attendance drawings. Sponsored by Anheuser-Busch, Earthgrains, Gardens by Hilary, and Hereford Printing Resources. Tickets are $30 per person and $50 per couple, and guests who become Garden members at the party receive $20 off their membership. Call (314) 577-9500 by February 1 for reservations.

TIM PARKER

The Tropics Two Committee (back row, left to right): Bonnie Johnston, Kalleen Munsch, Bill Lambert, Michelle Woodcock, Suzanne McMullin, Leslie Davis, Andy Dielmann (chair), Drew Luning, Rich George (co-chair). Front row, left to right: Airlia W. Pettus, Middy Wolfarth, Ginny Yoder, Liza Mason, Brian Deffaa, Claire Halloran (chair), Jennifer Macalady, Beth Gershenson, Anne Suppiger (co-chair).

February 14 Sunday

Members' Valentine Dinner Dance

7:30 to 11 p.m., dinner served until 9 p.m. Dancing, cash bar. Garden Gate Shop will be open until 7 p.m. After a romantic dinner in the Gardenview Restaurant, stroll with your sweetheart through the Orchid Show and visit the Linnean House to see the camellias in bloom.

Select from:

Baked Salmon Fillet, $35 per person

Prime Rib, $35 per person

Stuffed Chicken Breast, $30 per person

Dinner includes a salad course and homemade ice cream torte for dessert. Each pair of guests will receive a complimentary split of champagne. Reservations must be received by February 8; please call (314) 577-9500. Seating is limited.

Thank You to Sponsors of Members' Events

Our special appreciation goes to each of the following:

For "Breakfast With Santa"
California Pizza Kitchen
Spicer's 5 & 10

For "Holiday Decorating"
Wildflowers

Past Presidents of the Members' Board

Ellen Jones

AS Mrs. Landon Y. Jones recalls it, the call came "from out of the blue." In 1967, Nora Stern, then president of Friends of the Garden, called to invite Mrs. Jones to join the Friends' Board. Fortunately for the Garden, Mrs. Jones said yes. In 1972-74 she served as the group's president, and for more than three decades she has been a gracious and active ambassador for Garden membership.

It was during Mrs. Jones's term as president that the "Friends of the Garden" became known as the Executive Board of the Members, a change that signalled the group's growing significance. Today the group is called simply the Members' Board.

"Joe Bascom was president of the Board of Trustees," Mrs. Jones recalls, "and he began the practice of including the president of the Members' Board at Trustees' meetings. Nora had been invited to some meetings while she was president, and she did such a fine job, I was invited to attend on a regular basis." The collaboration has paid off over the years, as membership has grown to become one of the foundations of the Garden's support.

In 1973, while Mrs. Jones was president, the Members' Board presented "Bal Orientale," a gala to benefit the fund for the Japanese Garden. They also organized a members' tour to the Chelsea Flower Show and "An English Garden Party" in 1974. "The role of the Board was always to find ways to widen the Garden's exposure in the community," she said.

As president of the Members' Board, Mrs. Jones was also invited to attend meetings of the Tower Grove House Historical Committee. She became very interested in the House and joined the group as a regular member, where she continues to be an active volunteer.

In addition to her work with the Garden, Mrs. Jones was president of the Friends of the St. Louis Art Museum during the early 1970s. She became a docent of the museum and continues as an honorary member. She currently serves on the board of the Mercantile Library and recently was appointed the archivist for the Junior League of St. Louis.

Mrs. Jones still visits the Garden regularly. "I love the tranquility as I walk through the grounds," she said. "I think the combination of excellence in horticulture and research make the Garden very special, and we are very fortunate to have Peter Raven as director."

CHARITABLE GIFT PLANNING

Charitable Gift Annuities

THE charitable gift annuity is a wonderful way to make meaningful gifts while enjoying income and tax benefits that can also help enhance your future financial well-being. It is through gifts of this kind that the Garden ensures that its magnificent horticultural display, international research efforts and educational outreach to children, teachers, and adults will continue to enrich the community.

Under the terms of a charitable gift annuity, you can make a gift of cash or other property to the Missouri Botanical Garden. You then receive fixed payments for life. The frequency and rate of payments are determined at the time the charitable gift annuity is funded.

Because a portion of your gift annuity will be used for charitable purposes, you are entitled to an income tax deduction in the year in which you make your gift. In addition, for a period of time, a portion of each payment may be free of income tax or taxed at capital gains tax rates that are lower than tax rates on other income.

The amount used to fund your charitable gift annuity may also be free of gift and estate taxes. You thus enjoy income and tax benefits today for a gift that you might otherwise have planned to make in the future through your will or other long-range plans. Through gift plans of this type our donors are able to help sustain the Garden while simultaneously planning for their own financial security.

If you would like a personalized illustration of the benefits of a charitable gift annuity for your particular situation, we will be pleased to provide details at no obligation. For more information, or to request a free brochure, please call Patricia Arnold, director of development, at (314) 577-5120.

FREE Financial Planning Seminar

Estate Planning for the 21st Century: From A (appreciated stock) to Z (zero coupon bonds)

Thursday, March 11, 1999
9:30 to 11:30 a.m., Shoenberg Auditorium

Continuing our seminar series, we are pleased to offer this opportunity to Garden members and their guests. The series is designed to assist individuals in meeting personal, as well as philanthropic, financial planning goals. Financial advisors will be available to respond individually to your questions.
Speakers include:

J. Gregory Keller, ChFc — President, Renaissance Financial

Bennett S. Keller — Principal, Rosenblum, Goldenhersh, Silverstein & Zafft, P.C., and adjunct professor, Washington University

Following the seminar, enjoy a tram tour of the Garden and complimentary admission to the Orchid Show.

Admission to the seminar is free. Please make reservations by calling Judi Schraer at (314) 577-5120.

SINCE 1984, Garden researchers have been entering information about plants from every part of the globe into TROPICOS, our botanical database. TROPICOS is a goldmine of information for specialists and anyone interested in plants — it contains data on more than 1.2 million plant specimens, 800,000 records of plant names, and 75,000 titles in its bibliographic files.

In 1996, w³TROPICOS made its debut on the Garden's Web site (www.mobot.org). w³TROPICOS is a user-friendly version of the database that makes it easy for non-scientists to use the same information as professional botanists. Today w³TROPICOS receives more than 75,000 "hits," or requests for information, every month from users around the world.

To visit this vast storehouse of information, go to the Gardens's Web site. Look for the menu that appears on the left side of the screen and click on w³TROPICOS. Here's a brief guide to what you will find at www.mobot.org.

w³TROPICOS — A User-Friendly Database

OLGA MARTHA MONTIEL

Close-up of an orchid flower, just one of the plant images that can be viewed on w3TROPICOS. *Habenaria quinqueseta* (Michx.) Sw. Granada, Nicaragua, 1980.

Specific Plants

Type in the scientific name of a plant (even a partial name) to find:

- Its complete name (genus and species) and family
- Where and when the name was first published
- Publications about the plant
- Synonyms (other names for a particular plant)
- A list of specimens of the plant and maps showing where they grow
- Links to Garden research projects

Photographs

Click on the menu on the right side of the w³TROPICOS screen and select "Images." You will find a list of plant families that have photographs in the system. Select a family and species to see:

- Gorgeous color photos of plants. Photos may be in the Garden system or may come from remote locations.
- Photos of type specimens. A "type" is the specimen on which the name of a plant is based — these include rare old specimens collected by Charles Darwin, Captain Cook, Lewis and Clark, and others.

Maps

Cursor down the page and select "Maps" to see where a particular plant grows. When you ask to see a map, the system compiles a list of the specimens in our system that have coordinates for latitude and longitude, sends that list to a company in California, which creates a map of where the specimens were found and sends it to your computer. And it only takes a minute or two!

A type specimen from the Garden herbarium, *Gonolobus lewisii* L.O. Williams.

Bibliography

Select "Bibliography" from the menu and search for papers published on a particular subject, from a particular author, or about a particular plant. For example, if you type in "conservation," you'll find a list of 49 references where you can look up more information.

New Information

w³TROPICOS is a work in progress, a dynamic database that is constantly being improved with more images, maps, and plant names. Check it out and have the results of years of plant and data collecting by hundreds of scientists at your fingertips.

— Kathryn Hurlbert, MBG Research Division

Garden Receives IMLS National Leadership Award

The Garden has received an Institute of Museum and Library Services (IMLS) National Leadership Award to develop a database of plant images and information and make it available on the Garden's Web site. The project will create a resource to which other botanical organizations can contribute. It will also serve as a model program for linking images and data.

IMLS National Leadership Awards were given for the first time this year. The competition, open to all types of libraries, attracted more than 250 applications, from which 41 grants were awarded.

Connie Wolf, the Garden librarian, said, "This is an exciting project that will benefit people and institutions all over the country. We are very grateful to the IMLS for their support and recognition."

PHOTOS BY DANIEL HARDER

National Science Foundation Supports Research in Biodiversity

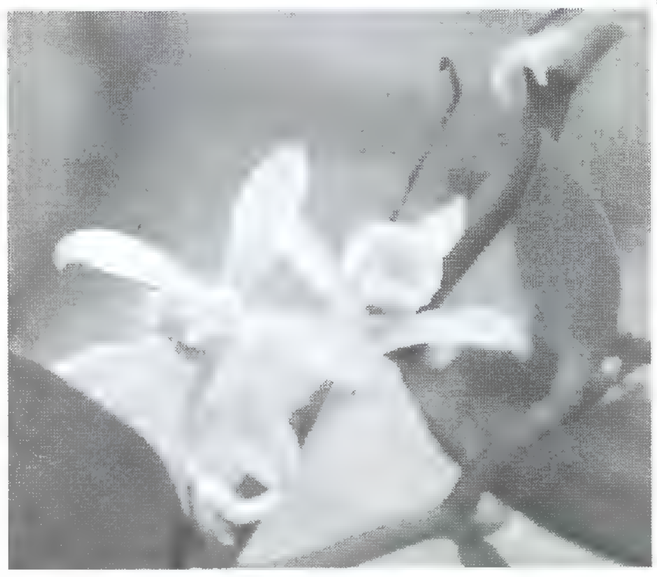
New Explorations in Vietnam

THIE Garden has received a three-year, $200,000 grant to support research in Vietnam from the National Science Foundation (NSF). Dr. Daniel K. Harder of the Research Division, who will move to Hanoi with his family this spring, will direct the Garden's program. Ivestigations will be in collaboration with the American Museum of Natural History in New York, which will focus on animal diversity.

In 1993 Dr. Harder became one of the first western botanist in twenty years to be invited by the Vietnamese government to meet with botanists in Hanoi. Several Garden researchers have visited Vietnam since then. (See the *Bulletin*, July/August 1996.) These explorations yielded exciting new discoveries that emphasized the necessity of focusing efforts on the region as a whole.

Rare and Endangered

Vietnam is ranked as the sixteenth most important country in the world for biodiversity, with 12,000 to 15,000 plant species representing nearly three percent of the total diversity on earth. An extraordinary 30 to 40 percent of the country's plant species are endemic, occuring nowhere else on earth.



The plants and animals of the country are extremely endangered. In a land area just slightly larger than New Mexico, Vietnam has more than a quarter of the population of the entire United States, with one of the world's fastest rates of deforestation. Uncontrolled logging and intensive agriculture associated with rapid human population growth contribute to the situation. Botanists estimate that approximately 90 percent of the country's forest cover has been lost due to 40 years of warfare and intensive reconstruction efforts, with only one percent remaining untouched.

Astounding Discoveries

Large animals previously unknown to science have recently been discovered in the forests of central Vietnam, including two deer and an ox species. These exciting finds underscore the urgency of studying the region, as scientists estimate that 28 percent of the region's mammals and 21 percent of reptiles and amphibians face extinction from loss of habitat.

Fortunately, in 1962 the government of Vietnam made a major commitment to manage and protect the nation's unique natural heritage. A system of protected areas was rapidly established, especially during the 1980s, and today Vietnam has a large number of trained scientific personnel, some basic research and teaching collections, and a strong commitment to collaborating with foreign scientists.

The Garden researchers will survey the broadest possible range of biogeographic zones in the country to measure species diversity and distribution. Extensive collection of specimens will document what they find. As with many Garden research programs in other countries, the project will focus on training local scientists and students and collaborating with their institutions to strengthen their facilities.

New to Science

The Garden's work in the region has already produced exciting results. Recent discoveries include orchids that may be new to science and show promise in the horticulture trade. Documenting the flora and fauna of Vietnam not only adds to our understanding of global biodiversity, it provides the essential scientific information needed for conservation planning and action.

— Daniel K. Harder, Ph. D., associate curator, MBG Research Division

Top: The mountainous interior region of Vietnam shelters extraordinary numbers of plants that occur nowhere else on earth.

Center: Research will verify whether this recently discovered *Vanilla* species is new to science.

In Memoriam

Hugh C. Cutler, Ph.D.

MISSOURI BOTANICAL GARDEN ARCHIVES

HUGH C. CUTLER, who retired from the Garden in 1977 as Curator of Useful Plants, died in Topeka, Kansas, on September 22, two weeks after his eighty-sixth birthday. Dr. Cutler was a distinguished botanist and teacher who spent 24 years at the Garden.

Dr. Cutler joined the Garden staff in 1953. During the next ten years he played important administrative roles, serving as acting director 1957 1958. During the early 1970s he was the first chairman of the Garden's Botany Department, which was established by Peter Raven soon after his arrival and which has evolved over the years into the current Research Division.

Dr. Cutler was born in Wisconsin and received his bachelor's and master's degrees from the University of Wisconsin. He received his Ph.D. from Washington University in 1939. He held positions at Harvard University and the Field Museum, Chicago, before returning to St. Louis, where he held adjunct positions in the Departments of Biology and Anthropology at Washington University in addition to his work at the Garden.

During the World War II Dr. Cutler was one of a small cadre of other taxonomic botanists who searched South America for improved strains of tropical crops, in his case rubber in Brazil, to support the Allied war effort.

Dr. Cutler's research interests at the Garden centered on plants cultivated by early Native Americans, especially corn and various members of the cucurbit family, which includes watermelons and squash. Working in an office on the upper level of the old Museum with former director Edgar Anderson and long-time volunteer Leonard Blake, Cutler identified, classified, and named thousands of samples of these plants from archeological sites all over the United States. These studies are important in dating the sites and in interpreting the development and spread of the many cultivars of corn and cucurbits by many tribes of Native Americans.

— Marshall R. Crosby, Ph.D., MBG senior botanist

In Memoriam

Otto J. "Obie" Baltzer

Friends of the Garden were saddened to learn of the death of Otto J. "Obie" Baltzer on October 18, 1998, at his home in Austin, Texas. He was 81.

A native of St. Louis, Dr. Baltzer was a longtime friend of the Garden. He received his Ph.D. in physics from Washington University in 1941,where he met and married his wife, Elizabeth Ammerman, a fellow student and St. Louis native.

During World War II, Dr. Baltzer helped to pioneer the emerging field of radar technology. Following the war, he founded Textran Corporation, which later became Tracor, Inc. During his years at Tracor, Dr. Baltzer pursued research and product development in Very Low Frequency navigation and associated systems.

In 1987, Dr. Baltzer established the Elizabeth A. Balzer Fellowship at the Missouri Botanical Garden in memory of his wife. The fellowship, which provides support for women pursuing graduate studies in taxonomy and ecology, will be renamed in memory of both Dr. and Mrs. Baltzer.

EUGENE W. WOOD, JR.

Garden Sponsors Underground Railroad Forum

The Garden held a reception at the Ridgway Center for the 1998 Underground Railroad Forum on October 23. The reception honored recipients of the 1998 Beacon of Freedom Awards, which were presented the following evening at the Marriott Pavilion Downtown. The celebration was hosted by the Mid-America Multicultural Travel and Tourism Network (MMTTN) and sponsored by the Garden, the National Parks Service, American Family Insurance, and the Missouri Lottery. The Underground Railroad Initiative is the result of recent national legislation declaring the Underground Railroad a national historic treasure and declaring its significance in American history.

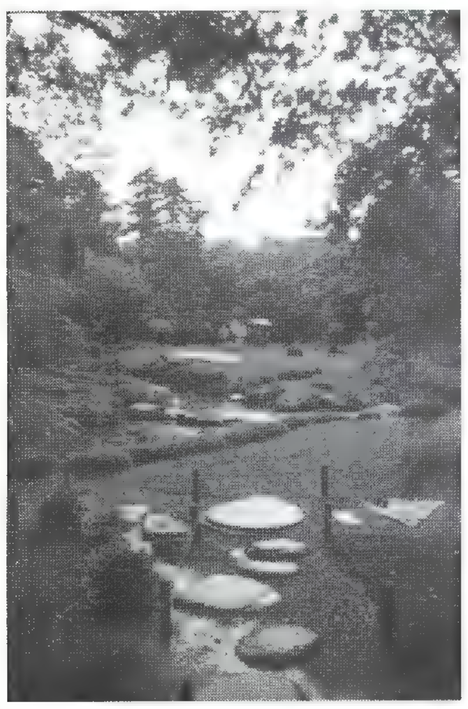
Those honored at the awards dinner included (from left): Anita Dixon-Andrews, co-founder of MMTTN; Harriet Brewer, American Family Insurance; Marnyce S. McKell, co-founder of MMTTN; Debbie Allen, entertainer/producer and recipient of the Illuminator Award; Brenda Jones, marketing director of Missouri Botanical Garden; Consuelo Washington and Kathleen Tucker, commissioners of Missouri Division of Tourism; and Christopher Jennings, director of Missouri Division of Tourism.

PHOTOS BY BEN CHU

Above left: The mirror pond, *Kyoko-chi*, at the 13th century garden *Kinkaku-ji*.

Above right: A walled dry garden at Ryoanji.

Far left: The 19th century garden of the Meiji era, *Murin-an*.



Studying Japanese Gardens in Kyoto

BEN CHU, the horticulturist responsible for our Japanese garden, travelled to Kyoto, Japan last September for an intensive, two-week seminar offered to students from abroad by the Research Center for Japanese Garden Art. Seventy-five international applicants competed for 25 places in the course, an intensive seminar in the history, design theory, and horticultural techniques of Japanese gardening.

The course was based in the ancient Japanese capital city of Kyoto, which was recently added to the UNESCO list of World Heritage Cities. Hundreds of Japan's finest and most ancient gardens are located in and around Kyoto, and excursions to the sites were an integral part of the course. The gardens spanned the historical range from prehistoric sacred spaces to modern Japanese gardens, including many not usually open to the public.

"This was one of the outstanding experiences of my career," Chu said. "I have been working with *Seiwa-en* for 13 years, and I always dreamed of visiting Japan and its incredible gardens. I was very proud to be representing the Garden and *Seiwa-en* in Japan."

TIM PARKER

Engineering Award for Monsanto Center

The Consulting Engineers Council of Missouri awarded their 1998 Honor Award for Engineering Excellence for Structural Design to David Mason & Associates of St. Louis for the firm's work on The Monsanto Center, the Garden's new research center. The engineering firm created the structural design that protects The Monsanto Center and its contents from earthquake damage. Shown with the award at the Garden are (from left): Peter Raven, David Mason, Paul Brockmann, director of General Services for the Garden, and Thomas W. Richter, vice-president, David Mason & Associates.

Nationwide Teachers' Workshop at the Garden

Discovery Units

In October, 35 teachers from around the United States gathered at the Garden for the second annual workshop on Discovery Units. This award-winning program, funded by the National Science Foundation, was developed by the Midwest Public Garden Collaborative, whose members include the Holden Arboretum, Morton Arboretum, Chicago Botanic Garden, Minnesota Landscape Arboretum, and Missouri Botanical Garden.

TIM PARKER

Discovery Units are 12 field-tested lessons for all grade levels. These innovative activities are fun, hands-on, and fully furnished with supplies. By combining field trips with inquiry-based classroom lessons, Discovery Units help to strengthen science education nationwide.

Above: Teachers tried out a conifer study designed to improve observation skills during the three-day workshop.

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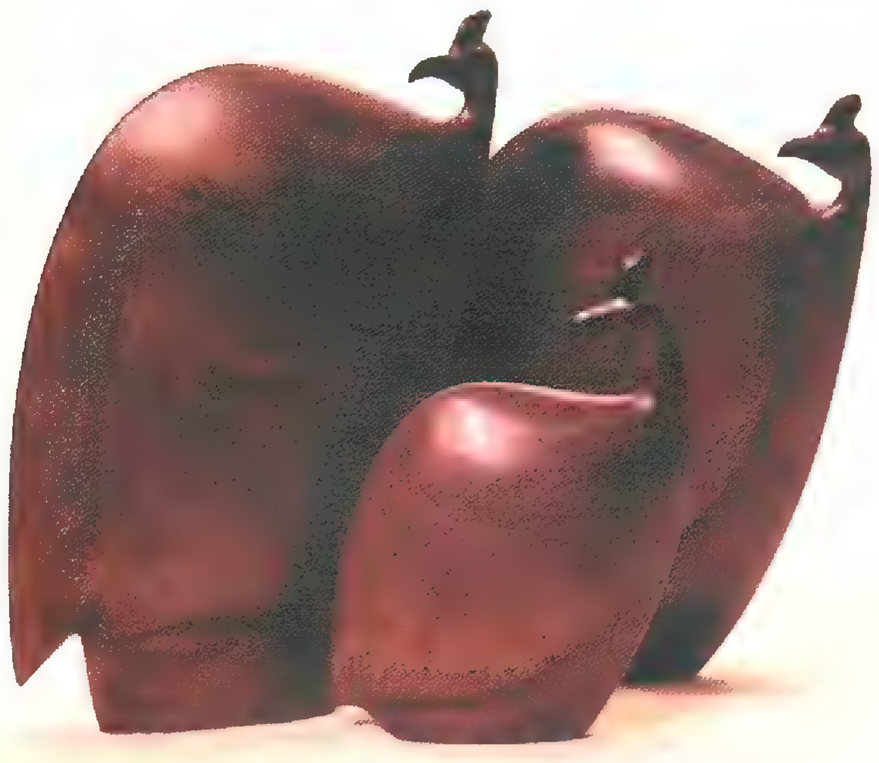

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Celebrate the Gospel

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Barbara Fairchild in Concert

& Lots More!

See pages 12 & 13

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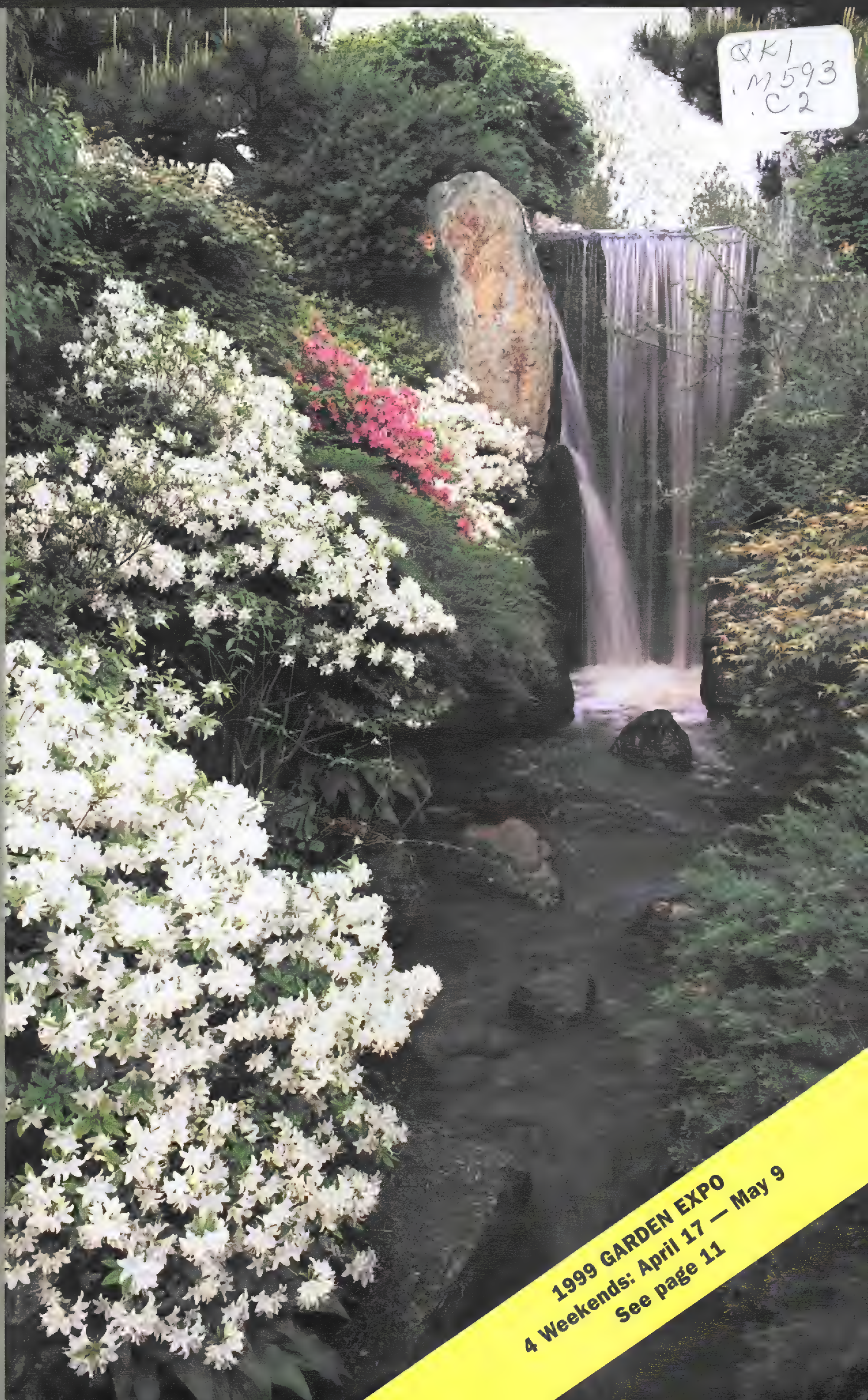

Missouri
Botanical
Garden

MARCH/APRIL
1999

1999 GARDEN EXPO
4 Weekends: April 17 — May 9
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VOLUME LXXXVII
NUMBER TWO

Comment

Missouri Botanical Garden Mission: "To Discover and Share Knowledge About Plants, In Order To Preserve and Enrich Life."

The first week in August, St. Louis will welcome the XVI International Botanical Congress, the world's largest gathering of plant scientists. More than 5,000 delegates from more than 100 countries will come together to study how plant life affects the stability and sustainability of all life on Earth.

The Congress meets only once every six years, and it has not met in the United States since 1969. I am honored to be serving as president for this important conference, which is being organized by the entire North American botanical community.

Having the Congress here is a singular honor for St. Louis and for the Garden. The results of the meeting will have a profound impact on the future of our planet, and we are proud to be participating in it. Watch for more on the conference in future issues of the *Bulletin*.

Closer to home, work is underway to make positive changes in our own neighborhood. Demolition of abandoned buildings is underway at the intersection of Shaw and Vandeventer, where an attractive parking lot will be built as part of the planned new transit center. This will be a welcome addition for the City and for our neighborhood, and it will provide additional parking for Garden visitors during weekend and evening events.

In each of these developments, the future of the Garden is interwoven with the vitality of our community. I am pleased to report that we are working closely with neighborhood leaders taking positive, united action toward strengthening and stabilizing our community, and we are very grateful for the magnificent support we have received for this process from the Danforth Foundation and others.

— Peter H. Raven, Director

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Please remember to send us your new address.

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Shaw Arboretum
Shaw Arboretum is located in Gray Summit, Missouri, just 40 minutes west of St. Louis on I-44. Open seven days a week, 7 a.m. to one-half hour past sunset. Admission is free for Garden members. The Visitor Center is open 8 a.m. to 4:30 p.m. Monday through Friday, and 9 a.m. to 5 p.m. Saturday and Sunday. The Bascom Manor House open 10 a.m. to 4 p.m. daily, closed on Mondays. For information call (314) 451-3512.

The Missouri Botanical Garden and its Arboretum are for the enjoyment and education of visitors. To ensure the fulfillment of its mission and the enjoyment of its grounds, the Garden does not permit the circulation of petitions, picketing or other kinds of demonstrations on its grounds or the grounds of the Arboretum. Organizations and individuals who wish to circulate petitions or to demonstrate, picket, or conduct similar activities will be directed to the public streets and sidewalks outside the grounds and directed not to block access or egress or in any other way present a hazard to visitors or others.

On the Cover

Azaleas bloom beside Cho-on-baku,"Waterfall of Tidal Sound," in the Japanese garden in April. – Photo by Jack Jennings

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, please call (314) 577-5118.

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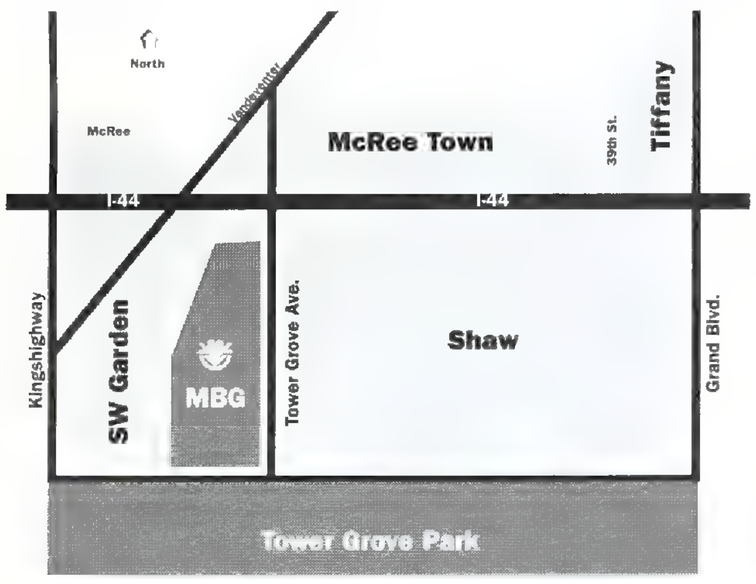
TIM PARKER

A residential street near the Garden

Danforth Foundation Awards $1.5 Million To Revitalize Neighborhoods

A $1.5 MILLION GRANT from the Danforth Foundation will support stabilizing and strengthening the neighborhoods adjacent to the Garden, it was announced in December. The funds will be used to create a Garden District Commission, which will coordinate redevelopment initiatives in McRee Town, Tiffany, Shaw, and Southwest Garden neighborhoods.

"The energetic efforts currently underway in the St. Louis area cannot succeed without the revitalization of neighborhoods," said Bruce Anderson, president of the Danforth Foundation. "This grant will help the Missouri Botanical Garden, a nationally recognized and world class enterprise, and community residents to work together to improve the quality of life in several neighborhoods adjacent to the Garden."



The four neighborhoods in the Garden District.

Last year the Garden initiated community-based planning for the area in cooperation with neighborhood leaders, residents, and organizations. Three consulting firms — Christner Inc., Grice Group Architects, and the Regional Housing and Community Development Alliance — were retained to assist the planning process. Participants developed a strong collaborative relationship, which led to a consensus on standards and priorities for redevelopment and stablilization of the area.

About 17,000 people live in the four neighborhoods. George Robnett, housing coordinator for McRee Town, noted that in the past 20 years, disinvestment has left blighted buildings and a largely underserved population. Many residents live at or below the poverty level, and some areas are experiencing an accelerated rate of absentee landlords.

The Garden District Commission will work closely with residents, two housing corporations, and other neighborhood organizations to attract developers to provide new mixed-income housing in the area. In collaboration with a task force of volunteer attorneys, organized by neighborhood leader Edward Roth, the Commission will seek rigid code enforcement for existing properties. It will also support beautification and other projects in the area.

Peter Raven said, "This is a ten to fifteen-year program to recreate sustainable, attractive neighborhoods where families will want to set down their roots and raise their children. It depends entirely on partnerships, and we are very pleased and grateful that the Danforth Foundation and others have joined with us and our neighbors in what we believe will be a new era for all of us and for St. Louis."

In Memoriam

Howard F. Baer

MISSOURI BOTANICAL GARDEN ARCHIVES

HOWARD F. BAER, a Trustee of the Garden since 1960, died December 30, 1998, at his home in St. Louis. He was 96.

Howard Baer was generous with his time, his energy, and his fortune, and his effect on St. Louis and its cultural institutions was profound. A significant part of his enduring legacy is the Metropolitan Zoological Park and Museum District, which he conceived and campaigned to establish. In 1971 the District was approved by voters in St. Louis City and County, providing annual property tax support for the St. Louis Art Museum, Saint Louis Zoo, and the Museum of Science. In 1983, voters approved adding the Garden and the Missouri Historical Society to the tax district.

"The community has much to be thankful for in [Howard's] creation of the Zoo-Museum District, which has brought tens of millions of dollars of extra tax support to some of the major cultural institutions of St. Louis," Peter Raven wrote in the *St. Louis Post-Dispatch*. "Howard had a great sense of planning and design, whether it was for the Garden or for the community. He wouldn't settle for anything less than the best...for the Garden, or for anything else he dealt with in his long and productive life. When he did something, he did it right."

The Garden is indebted to Howard Baer for many of its most beautiful features. He helped to conceive the original 1972 Master Plan. He arranged for a magnificent sculpture by Henry Moore, *Two-Piece Reclining Figure No. 2*, which he and his wife had given to the St. Louis Art Museum, to be installed beside the John S. Lehmann Building in 1969. And in 1991 he gave the exquisite Isabel Aloe Baer Garden at the north end of the Linnean House in memory of his wife of 64 years.

Mr. Baer was born in Charleston, West Virginia and graduated from Choate and Princeton. He married Isabel Aloe of St. Louis in 1926 and came to St. Louis in 1927 to work for her family's business. He served with distinction in World War II, was active in more than 50 civic organizations, and retired at a relatively early age to foster cultural organizations and opportunities in St. Louis. He was devoted to his wife and large family.

In his tribute to Howard Baer, Peter Raven wrote, "He was always ready to listen and to act, unfailingly helpful and positive, and a great citizen of St. Louis, as well as a great Garden Trustee....Howard Baer was a wonderful, enjoyable, giving, caring man."

Research Partners Explore the World of Plants

TIM PARKER

Dr. Gerrit Davidse, right, a Garden curator and director of the Flora Mesoamericana project, is shown meeting Garden members and discussing his work during an open house at The Monsanto Center. Other presentations included the Flora of North America and Flora of China projects.

IF YOU ARE INTERESTED in the remarkable discoveries of Garden botanists around the world, an exciting new program offers you a chance to learn about research first hand.

Research Partners are individuals who support one of three major research projects based at the Garden, the Flora of North America, Flora of China, or Flora Mesoamericana. Launched last year, the Research Partners program introduces donors to Garden scientists and provides an inside look at their explorations and discoveries all over the world.

Anniversary Celebration at Monsanto Center

The first anniversary celebration for The Monsanto Center will be held on April 15, by invitation only. Research Partners are invited to attend, to meet Garden botanists from each of the three flora projects and learn about their work. Peter Raven will lecture on "The Meaning of Biological Extinction for Us." Guests will see exhibits, take self-guided tours, and get a first hand look at the Garden's new research facility.

For more information about becoming a Research Partner, please call Kelly Dopman at (314) 577-0847.

JACK JENNINGS

Restoration at Tower Grove House

A New Fire Suppression System Protects Henry Shaw's 1851 Home

HENRY SHAW would feel right at home in Tower Grove House today, thanks to the dedication of the Tower Grove House Historical Committee, Auxiliary, and staff. Restoration of Shaw's 1851 country home has been underway for over 40 years.

During January and February, a new sprinkler system was installed in Tower Grove House. Funding for the project was provided by "Impressions of Giverny," the gala benefit held at the Garden last May. The sprinkler system was designed by Nicholas Artim of Fire Safety Network, a firm specializing in fire suppression systems for historic structures, and installed by local contractors. Artim worked in collaboration with Philip Cotton, the St. Louis architect who designed the Piper Observatory at the Garden and the Bascom Manor House renovation at the Arboretum.

"Fire suppression is an important tool for historic preservation," Artim said. "A structure like Tower Grove House is irreplaceable, and a good sprinkler system will ensure that it is protected."

The system was carefully designed to be unobtrusive and to cause minimal disruption during installation. Sprinkler heads are painted to blend into the background and pipes are placed out of direct view. If a fire is detected, the water-based system will activate only in the areas where fire is present, keeping damage to a minimum.

During the past five years, several projects have been completed as part of the restoration of Tower Grove House. Authentic fitted carpeting was installed in the double parlors, and the front doors were refinished. Several pieces of Victorian furniture were restored, including the canopy bed in the Garneau bedroom, the desk in the second floor study, and several chairs and tables. New window sashes and first floor storm windows were installed. All of these projects are researched and directed by the Historical Committee, and much of the funding is provided by the Tower Grove House Auxiliary.

Docents offer tours of the House from 9:45 a.m. to 4 p.m. daily, and Garden members are admitted free. Stop in soon and take a step back in time, as you experience the Garden as Henry Shaw saw it.

CHARITABLE GIFT PLANNING

Bequests

AS many members know, the Garden itself was established through a bequest. Henry Shaw's Will made a gift to the future, a gift to perpetuate the things he loved so dearly and make them available to the public, "...a botanical garden easily accessible, which should be forever kept up and maintained..."

Your bequest too can provide timeless enjoyment and beauty for generations to come and support the Garden's important research and education programs.

Testamentary gifts will qualify for a full estate tax deduction and allow the donor to make a gift without losing control over the assets during his or her lifetime.

There are many different ways to make a bequest. If you would like more information about including the Garden in your will, or if you would like to receive our semi-annual estate planning newsletter, please call Patricia Arnold, director of development, (314) 577-5120.

FREE Financial Planning Seminar

Estate Planning for the 21st Century – From A to Z

Thursday, March 11, 1999
9:30 to 11:30 a.m., Shoenberg Auditorium

Designed to help you meet personal, as well as philanthropic, financial planning goals. Financial advisors will be available to respond individually to your questions.

Following the seminar, enjoy a tram tour of the Garden and visit the Orchid Show.

Admission to the seminar is free. Please make reservations by calling Judi Schraer at (314) 577-5120.

JACK JENNINGS

Daffodil Days

The fields near the Bascom Manor House at Shaw Arboretum are blanketed with brilliant yellow blossoms in springtime. Don't miss one of the spectacular sights of the season! The daffodils can make their appearance from early March to early May — call 451-3512 for an update.

The Giant Dogwood

SHOWSTOPPER was the best description for the Garden's giant dogwood, *Cornus controversa*, when it bloomed so spectacularly last spring. No doubt benefiting from the generally mild winter of 1997-98, the tree's horizontal limbs were literally sagging to the ground beneath its floral bounty.

The giant dogwood is an Asian native, principally from China and Japan. Its broad, flat-topped clusters of creamy flowers are markedly different in appearance from the familiar blossoms of our native flowering dogwood, *Cornus florida*. The giant dogwood bears a striking resemblance to a less common Missouri native, the pagoda tree, or alternate-leaf dogwood, *Cornus alternifolia*. The one major difference is size.

JACK JENNINGS

The giant dogwood is well-named. Mature specimens in the wild reach 60 feet tall, with an even greater spread. In cultivation, the trees have a medium to fast rate of growth and are known to exceed 40 feet in height and width. Not a plant for the small landscape! Our specimen has doubled its size to over 20 feet since it was transplanted to its current site about nine years ago.

Uncommon in cultivation, giant dogwood deserves wider use in local gardens with ample space. The best location is a sunny spot sheltered from prevailing winds, with a moist, acid, well-drained soil. Though hardy from USDA zones 5 to 7, the species is not without risk in our changeable climate. Because it is native to climates with a slightly longer growing season than ours, giant dogwood takes a little longer to harden off in autumn, making it vulnerable to damage from early and severe fall frosts.

In early November, 1991, when temperatures abruptly plummeted into the single digits after an abnormally wet, warm autumn, our tree sustained damage to the tender cambium tissue beneath its trunk bark. Its survival was in question for a long time, but patience and the skills of the staff were rewarded with the giant dogwood's renewed vigor, culminating in its outstanding floral display last spring.

— Chip Tynan, MBG Answer Service

Watch for the magnificent giant dogwood to bloom by the tram path just north of the Lehmann Building this spring.

Raven to Head National Geographic Committee for Research and Exploration

THE NATIONAL GEOGRAPHIC SOCIETY announced in February that Peter H. Raven has been appointed chairman of the Society's Committee for Research and Exploration (CRE). Dr. Raven will continue to serve as director of the Missouri Botanical Garden.

Peter H. Raven

The CRE has funded more than 6,400 explorations and research projects since it was founded in 1890. It has supported the work of celebrated scientists and explorers, including the Leakey family, Jacques-Yves Cousteau, Dian Fossey, and Jane Goodall.

In announcing Dr. Raven's appointment, the Society recognized his role in building the Missouri Botanical Garden into one of the world's most respected and active institutions in tropical botany.

"Peter brings to the chairmanship four decades of experience and leadership in scientific research and a passion for preserving plants and animals throughout the world," said National Geographic Society president John Fahey. "He also has an uncommon ability to articulate this passion for the environment and biodiversity."

Fahey added that Dr. Raven will work with the Society as a whole to look for ways to increase public education for conservation issues.

Peter Raven has been a member of the Committee for Research and Exploration since 1982. He succeeds George Stuart, who retired after eight years as CRE chairman.

Human population growth and increasing affluence have challenged the world and its natural diversity in the last 50 years, Dr. Raven said. "Now is the time for us to respond to that. The wonderful standing of the National Geographic Society and the enormous contribution it has made in the past poises it perfectly to play an even bigger role in the future. No one else is as widely known and trusted throughout the world as the Society. We have a great opportunity to be of even more service than in the past in promoting sustainable development and conservation, and it is a great pleasure for me to participate more fully in the process."

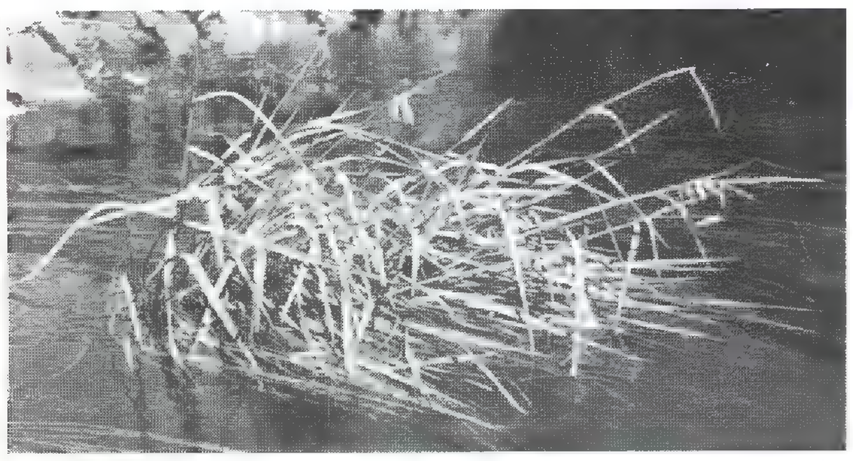
Dr. Raven was named director of the Missouri Botanical Garden in 1971. He also serves as home secretary of the National Academy of Sciences, chairman of the Report Review Committee of the National Research Council, and as a member of the President's Committee of Advisors on Science and Technology. He has a Ph.D. from UCLA and 15 honorary degrees. He is the author or editor of more than 20 books, including textbooks on biology, botany, and the environment, and he is author of more than 450 scientific papers.

A Landmark Study from the Center for Plant Conservation

Losing Rare Plants Could Cost U.S. $10 Billion

IMAGINE your medicine cabinet without aspirin, or cherry pie without the cherries. Eighty percent of plants of conservation concern in the United States are related to valuable crop plants, and their loss would have enormous economic impact.

Based on the value of food crop relatives, rare plants in the U.S. are estimated to be worth about $10 billion annually.



JACKIE M. POOLE

ENDANGERED WILD RICE — The last natural population of Texas wild rice, *Zizania texana*, is found in a small stretch of unprotected habitat along the San Marcos River in Texas. The species is federally listed as endangered. Modification of wetland habitat for dams and water sports and pressure from introduced species have contributed to its decline. Texas wild rice has been used in agricultural breeding experiments and attempts to reintroduce populations in the wild are underway.

The estimate was proposed in a recent landmark study by the Center for Plant Conservation (CPC), which demonstrated that the loss of rare wild plants is a substantial economic threat in the United States. Published last year in the journal *Economic Botany*, the study was one of the first to quantify the potential economic value of rare plants.

Co-directed by Dr. Brien A. Meilleur, president and executive director of CPC, and Dr. Oliver Phillips, a Garden research associate at the University of Leeds, U.K., the study was supported by the Surdna Foundation and Phillip Morris Inc./Kraft General Foods, with assistance from the Missouri Botanical Garden.

Many crop plants require occasional genetic infusions from close wild relatives to improve their nutritional value, disease resistance, or hardiness. The disappearance of rare plant species may prevent such improvements and threaten development of crops in the future.

Two-thirds of the rare plant species in the United States have close relatives in cultivation, including beans, sunflowers, roses, grapes, peaches, cherries, squashes, almonds, and walnuts.

Plants have also played key roles in the development of seven of the top 20 best selling drugs in the U.S. Aspirin, consumed by Americans at the rate of 80 million pills a day, owes its origins to a chemical found in willow trees. Ironically, no fewer than 14 species and varieties of willows are threatened today in the U.S.

The Center for Plant Conservation is the only national organization solely dedicated to preventing the extinction of U.S. plants. It has its headquarters at the Missouri Botanical Garden.

PLANTS OF MERIT

NOVELTY adds spice to life, and gardening is no exception. We're always on the lookout for fresh new plants to liven up our home landscapes, and xperimentation is the lifeblood of the horticulture industry, which introduces new selections every season.

When a new plant becomes popular and fashionable, the attendant excitement makes it easy to overlook some not-as-new but very good plants. There are a lot of fine plants out there that are not widely publicized but have proven themselves as outstanding performers.

At the Kemper Center for Home Gardening, we have been evaluating many of these underutilized species for several seasons. In the list at right, you will find 45 plants we have found to be ideal for the St. Louis climate, including annuals, perennials, trees, and shrubs. We selected these plants for their notable growth characteristics, reasonable maintenance requirements, and tolerance or resistance to diseases and pests.

We call them our Plants of Merit. See them on display at the Kemper Center this year, where you will find their distinctive markers as you tour the demonstration gardens. Here are three that made the list:

Black-Eyed Susan

Rudbeckia hirta 'Indian Summer'

Brilliant golden yellow daisy-like black-eyed Susans are a common sight along our roadsides in mid-summer. As you might expect from prairie species, rudbeckias are extremely tolerant of dry soil and hot weather. They have a long blooming period, suitable for colorful massed plantings, and they are wonderful in arrangements of fresh or dried flowers.

The cultivar 'Indian Summer' was an All-American Selection® Award winner in 1995. It is treated as an annual and can be established by seeding in the spring, about eight to ten weeks before the last frost. 'Indian Summer' grows best in full sun, producing six to nine-inch blooms on 18 to 24-inch stems that require no staking.

Eulalia grass

Miscanthus sinensis 'Adagio'

Many varieties of ornamental eulalia grasses are available. They range from medium height to giant forms that challenge a two-story house. These robust plants are notable for their low maintenance requirements and immunity to serious pest infestations and diseases. These grasses are attractive all year round.

The cultivar 'Adagio' grows into a compact mound, about four feet tall with a four-foot spread. The foliage is outstanding, with its beautiful silver green color, and the pink-tinged flower spikes that turn white as the season progresses. The grass makes a great accent plant in a medium to tall flower border.

Smoketree

Cotinus coggygria 'Velvet Cloak'

This handsome multi-stemmed shrub grows 10 to 15 feet tall at maturity, and it takes well to extensive pruning. It is common practice to keep the plants compact, making them suitable for smaller landscapes. The shrubs should be planted in full sun with well drained soil.

Smoketrees have exceptionally beautiful purple leaves with a soft, waxy sheen. The foliage retains its beauty through the heat of summer and into autumn. The shrubs take their name from their delicate floral heads, which resemble baby's breath and are colored in shades from pink to purple.

— Steven D. Cline, Ph.D., manager, William T. Kemper Center for Home Gardening

Teaming Up with Local Nurseries

With the Plants of Merit Program, we hope to inspire you to try some excellent plants that have withstood the test of time and the St. Louis climate. The Kemper Center has teamed with 40 local nurseries to make sure that ample supplies will be available in the St. Louis area.

Stop in at the Kemper Center to see Plants of Merit on display and learn more about them. You can obtain the list of participating nurseries at the Kemper Center, or send a stamped, self-addressed envelope to: Plants of Merit, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166.

A colorful 24-page brochure that briefly describes each plant is $1 each. Brochures are available at the Kemper Center or by mail, at the address above.

Plants of Merit

Annuals

Dyssodia renuiloba	Dahlberg daisy
Verbena bonariensis	Vervain
Nicotiana sylvestris	Flowering tobacco
Nierembergia hippomanica 'Mont Blanc'	Cupflower
Lycopersicon esculentum 'Beg Beef'	Big beef tomato
Lycopersicon esculentum 'Pink Girl'	Pink girl tomato
Capsicum annuum 'Parks Early Thickset'	Sweet bell pepper
Lobularia maritima 'Snow Crystals'	Sweet alyssum
Zinnia angustifolia	Mexican zinnia
Rudbeckia hirta 'Indian Summer'	Black-eyed Susan
Origanum majorana 'Kent's Beauty'	Sweet marjoram

Perennials

Cimicifuga simplex 'White Pearl'	Bugbane
Miscanthus sinensis 'Adagio'	Eulalia grass
Nepeta faassenii 'Blue Wonder'	Catmint
Perovskia atriplicifolia	Russian sage
Caryopteris x *clandonensis* 'Longwood Blue'	Bluebeard
Mazus reptans	Mazus
Heuchera americana 'Chocolate Ruffles'	Coral bells
Ophiopogon planiscapus 'Ebony Knight'	Mondo grass
Boltonia asteroides 'Snowbank'	Boltonia
Helleborus orientalis	Lenten rose
Anemone japonica 'Honorine Jobert'	Japanese anemone
Iris siberica 'Caesar's Brother'	Siberian iris
Scabiosa columbaria 'Butterfly Blue'	Pincushion flower
Hosta x 'Halcyon'	Hosta
Brunnera macrophylla	Siberian bugloss
Epimedium x *versicolor* 'Sulphureum'	Epimedium
Stachys byzantina 'Helene Von Stein'	Lamb's ears
Helianthus salicifolius	Willow-leaved sunflower

Shrubs

Ilex verticillata 'Red Sprite'	Winterberry
Hydrangea quercifolia	Oak leaf hydrangea
Syringa meyeri	Korean lilac
Forsythia x 'Gold Tide'	Forsythia
Rhus aromatica 'Gro-Low'	Aromatic sumac
Cotinus coggygria 'Velvet Cloak'	Smoketree
Cornus stolonifera 'Cardinal'	Red twig dogwood
Cornus mas 'Golden Glory'	Cornelian cherry
Rhododendron x 'Girard Rose'	Evergreen azalea
Itea virginica 'Henry's Garnet'	Sweetspire
Corylus avellana 'Contorta'	Henry Lauder's walking stick

Trees

Cercis canadensis 'Forest Pansy'	Redbud
Amelanchier grandiflora 'Autumn Brilliance'	Serviceberry
Betula nigra 'Heritage'	Heritage birch
Acer griseum	Paperbark maple
Parrotia persica	Parrotia

Iris Society of Greater St. Louis

Colorful Characters

FOR FIFTEEN YEARS, a dedicated group of volunteers from the Iris Society of Greater St. Louis has kept the colorful Alice Hahn Goodman Iris Garden blooming. Every Friday from March through October, a regular group of about eight arrives at the Garden and goes to work, digging, fertilizing, weeding, deadheading, planting, and preparing for next season's beautiful display. The Iris Society numbers about 120 members in St. Louis.

The group at the Garden is small, but they have an enormous impact. Their annual sale of surplus rhizomes raises the funds to maintain the iris garden, and the group has also made substantial contributions to the Garden's general operating fund over the years. Their recent donations have helped purchase equipment and supplies for the Horticulture Division, including a new machine for making zinc plant labels and a Cushman cart.

"They tell me what to do," said Jason Delaney, the staff horticulturist oversees the iris garden and the bulb displays. "These folks are incredibly knowledgeable."

The Goodman Iris Garden has strong roots in St. Louis. Many of the hybrids on display were developed by members of the Iris Society or local growers. One of the most popular is 'Alice Goodman', a lovely pink hybrid named in tribute to the lady for whom the garden is named. 'Alice Goodman' rhizomes are among the top sellers at the Society's July sale.

Also on display is the Japanese iris 'Edge of Frost', developed by Marie Dienstbach, one of the Iris Society volunteers. It won the 1996 Payne Award, the highest national honor for Japanese irises.

The Goodman Iris Garden was dedicated in the spring of 1984. The late Stanley Goodman made the gift to name a new iris garden in memory of his wife, Alice. Opposite the iris beds, on the east side of the path, is the handsome bronze sculpture "Unicorn Spirit," which was created in memory of Alice Goodman by their son, John.

Mark Dienstbach and other members of the Iris Society worked closely with the late Alan Godlewski, the Garden's head of horticulture, to plan the display, and it immediately became one of the most popular springtime attractions at the Garden. Watch for its rainbow of glorious color just south of Spink Pavilion in April and early May.

JASON DELANEY

Iris Society volunteers in the Goodman Iris Garden (from left): Marty Meagher, Craig Hughes, Mark Dienstbach, Jim Loveland, Christa Royer, Marie Dienstbach, and Ken Rusk. Not pictured: Arlene Luecke.

The Great Perennial Divide

May 1, 1999

This spring, you can have a great time and help make St. Louis more beautiful!

The annual Great Perennial Divide is your chance to share extra plants from your garden with community gardens in St. Louis. Sponsored by Gateway Greening, last year the event had over 500 volunteers and donors who contributed more than 20,000 plants and helped to make 67 neighborhood gardens in the city into showplaces.

Community garden leader Deborah Herndon.

How To Donate Plants

All donated plants must be potted, labeled, and dropped off at one of our convenient collection sites between April 19 and 25. Volunteers will be on hand to care for the plants.

Digging Crews Available

If you need help to donate your plants, volunteers led by an experienced gardener will come to your location and dig under your direction. Call 577-9484.

Collection Sites

Call 577-9484 for directions to these locations:

Chesterfield
Clayton / Ladue / University City
Ladue / Frontenac / Brentwood
Creve Coeur / Maryland Heights
Town & Country / Ballwin / Manchester
Ferguson / Florissant
Hazelwood / Bridgeton
Jefferson County / Hillsboro
Kirkwood / Des Peres
Kirkwood / Fenton
South St. Louis / Affton / Sappington / Mehlville
St. Charles
St. Peters / Lake St. Louis
St. Louis City

What We Need

Perennials for
Sun or Shade
Ground covers
Herbs
Trees
Shrubs
Bulbs
Rhizomes
Ornamental Grasses
Annuals
Seeds
Tools & Hoses
This year only —
No orange daylilies, please.

Plant Sale – Bigger and Better!

A special opportunity limited to volunteers and donors to the Great Perennial Divide.

Important Dates

- Call for Digging Crews: March 1 – April 22
- Collection Sites Open: April 19 – 25
- Plant Sale for Donors and Volunteers: April 30
- Distribution Day: May 1, 1999
  Held at the Bell Community and Demonstration Garden, Bell and Vandeventer

Great Perennial Divide Hotline: (314) 577-9484.

Call to donate, volunteer, get more information, or apply for your group to receive plants.

Volunteers Arlie Tempel and Bobby Jarvis at work during the 1998 Great Perennial Divide.

GardenExpo 1999

The Garden's annual celebration of spring features the William T. Kemper Center for Home Gardening. Blossoming with ideas you can take home to enjoy.

Featuring:

- **Gardening Experts — Special Appearances**
- **Workshops and Demonstrations by Master Gardeners and Horticulture Staff**
- **Shows and Sales by Regional Plant Societies**
- **Tours of the Greenhouses and Japanese Garden**
- **"What's In Bloom?" Tours**
- **Special Promotions and Demonstrations in the Garden Gate Shop**
- **Garden Art & Sculpture Exhibits**
- **Children's Activities**
- **Entertainment**

April 17 & 18 Saturday & Sunday

"Shape Up for Spring"

New Spring Plant Sale Extravaganza – Bigger and Better than Ever

St. Louis Horticulture Society Special Display

Performances by St. Louis Showstoppers

April 24 & 25 Saturday & Sunday

"Southern Exposure"

Southern Living Magazine – Gardening School

Henry Shaw Cactus Society – Special Display

"Reflections of Missouri" – Special Display of Landscape Art by John Stoeckley

In the Garden Gate Shop: Special MBG Blooming Display Plants, Artisan Demonstrations

May 1 & 2 Saturday & Sunday

"May Day Picnics"

Better Homes and Gardens Magazine – Photographic Presentation by editor Mark Kane

African Violet Society Show and Sale

Maypole Celebration, with Morris Dancers and Capering Roisters

"Carmina Burana" – Performances by Missouri Choral Society

Picnicking on Garden grounds

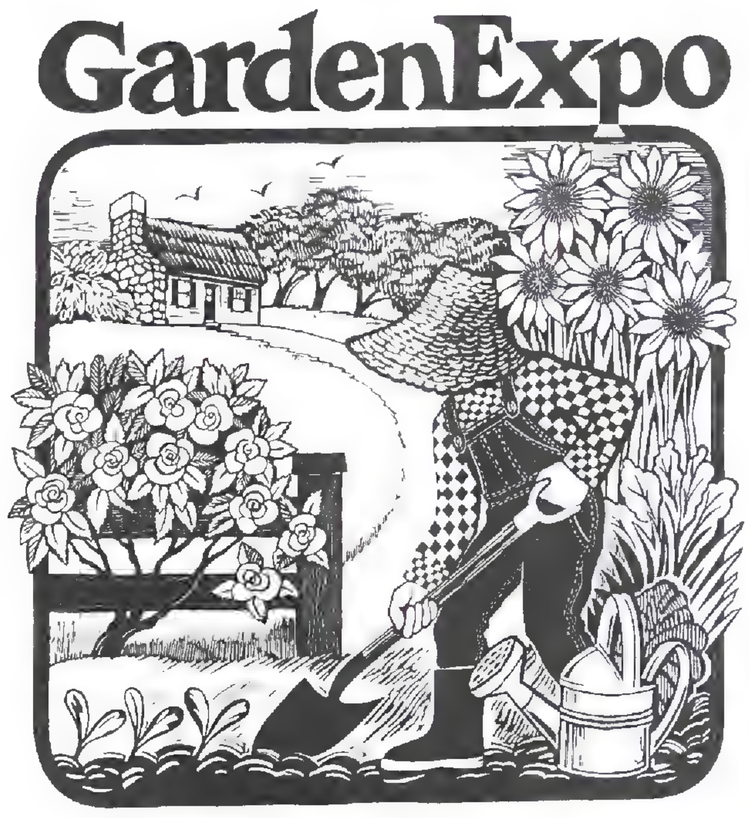
May 8 & 9 Saturday & Sunday

"Mother's Daze"

Rose Society of Greater St. Louis Miniature Rose Sale

Mother's Day Buffet in the Gardenview Restaurant

All events are free with Garden admission.



Four Weekends of Gardening and Family Fun!

Featuring demonstrations and workshops at the William T. Kemper Center for Home Gardening.

Calendar

April 15 – 18 Thursday – Sunday

Spring Plant Sale

E X T R A V A G A N Z A

Thursday & Friday: Members only, 9 a.m. to 6:30 p.m.
Saturday & Sunday: Open to the public, 9 a.m. to 5 p.m.

New for 1999 – Bigger and Better than Ever!
This year the annual spring plant sale combines MBG Signature Plants, MBG Plants of Merit, and a wonderful selection of unusual bedding plants, annuals, vegetables, herbs, perennials, and bulbs. Master Gardeners will be present. Displays in Orthwein Floral Hall, the Garden Gate Shop, and Ridgway Center. Members receive 20% discount, all four days.

April 14 Wednesday

MEMBERS' SALE PREVIEW:

"First Choice"

5:30 to 7:30 p.m., Garden Gate Shop. Exclusively for members, who receive 20% off. Master Gardeners and MBG horticulture staff will be on hand to answer questions. Refreshments will be served.

March 1 – 5 Monday – Friday

"Splendor in the Garden"
9 a.m. to 5 p.m. daily, Monsanto Hall. Paintings by Lucia Boles. Free with Garden admission.

March 1 – 14 Monday – Sunday

Orchid Show: "Beauty and the Beast"
9 a.m. to 5 p.m. daily, Orthwein Floral Display Hall. The annual Orchid Show concludes. Flower Show admission (in addition to Garden admission): $2 adults, $1 seniors age 65 and older, free to children 12 and under. Free to members.

March 13 & 14
Saturday & Sunday

Fossil Frolic
9 a.m. to 5 p.m., Ridgway Center. A fun way for the whole family to learn about archeology and the Ice Age in Missouri. See exhibits of fossilized plants, amber, and petrified wood. Touch dinosaur tracks, teeth, claws, and bones, and discover real fossils in a sandbox dig. Free with Garden admission.

March 18 – April 25

Exhibit: "Plant Gems"
9 a.m. to 5 p.m. daily, Monsanto Hall. Watercolors by Elizabeth Kincaid, featuring flowers and other treasures of the plant world. Free with Garden admission.

March 20 Saturday

EarthFriends Day
11 a.m. to 5 p.m., Ridgway Center and grounds. The Garden's annual biodiversity event celebrates the incredible variety of life on earth with treasure hunts, prizes, and fun activities for all ages. Explore how plants adapt to their environment with Volunteer Interpreters at several locations around the Garden. Participate in hands-on Eco-Cart demonstrations at the Brookings Interpretive Center, and visit "biodiversity stations" from the St. Louis Children's Aquarium and World Bird Sanctuary. Free with Garden admission.

March 20 Saturday

StoryTime
11 a.m., Garden Gate Shop book department, for children ages 4 to 10. Listen to a story, create a project to take home, and learn about the world of plants. Children younger than age 4 must be accompanied by an adult. Call 577-5136 if you would like more information. No reservations. Free.

March 27 Saturday

Lecture by Edward Austin McRae: "Lilies"
2 p.m., Shoenberg Auditorium. Lecture by Edward Austin McRae, internationally recognized expert and author of *Lilies: A Guide for the Grower and Collector.* Presented by the Mid-America Regional Lily Society, MARLS. Book signing follows the lecture. Free.

March 27 & 28
Saturday & Sunday

MARLS Lily Bulb Sale

9 a.m. to 5 p.m. daily, or until sold out, in the Beaumont Room. The Mid-America Regional Lily Society offers a wonderful selection of bulbs.

March 28 – April 25
Five Consecutive Sundays

"From the Garden, Live®"

Noon, Shoenberg Auditorium. Annual spring concert series is broadcast live by KFUO 99.1 FM and co-sponsored by the Garden. Concert admission is free. Call 725-0099 for ticket information.

April 2 Friday

Arbor Day Celebration

9 a.m. to 5 p.m., Kemper Center for Home Gardening. Celebrate Arbor Day at the Kemper Center and receive a free redbud or bald cypress seedling to take home. Master Gardeners will be on hand to answer your questions about tree care and culture. Free with Garden admission.

April 3 Saturday

Daffodil Show

9 a.m. to 5 p.m., Orthwein Floral Display Hall. A show presented by the St. Louis Daffodil Society. Free with Garden admission.

April 6 Tuesday

Jane and Whitney Harris Lecture: "Active Management and the Conservation of Tropical Forests"

7:30 p.m., Shoenberg Auditorium. Presented by Dr. Ariel Lugo, director of the International Institute of Tropical Forestry and renowned expert in sustainable use and management of tropical forests. The Institute works closely with international, national, and state agencies and private forestry programs to develop sound strategies for management of tropical forest resources. Presented by the International Center for Tropical Ecology at UM-St. Louis. Refreshments will be served. Free.

April 10 Saturday

"Tomato Plant Girl"

2 p.m., Shoenberg Auditorium. The acclaimed Metro Theater Company comes to the Garden with a new musical play for children and adults, a highly stylized contemporary fable about making friends. Tickets are $10 per adult, $6 per child, includes admission to the Garden after the performance. Seating is limited; call 577-5141 for reservations.

April 11 & 18 Two Sundays

Langston Hughes Black Poetry Festival

3 p.m., Shoenberg Auditorium. In honor of National Poetry Month and the beloved African American Poet born in St. Louis, the Garden hosts opening and closing ceremonies for this annual festival, featuring poets, writers, and educators. Seating is on a first-come, first-served basis. Free with Garden admission.

April 17 Saturday

StoryTime

11 a.m., Garden Gate Shop. See March 20.

April 17 & 18
Saturday & Sunday

Garden Expo: "Shape Up for Spring"

9 a.m. to 5 p.m. daily. See page 11.

April 17 & 18
Saturday & Sunday

"Grand South Grand" House & Garden Tour

Celebrate "A Grand Century" with a tour of some of the historic neighborhoods surrounding the Garden. Tour begins at Compton Hill Reservoir Park on Grand Boulevard near I-44. Tickets are $12 the day of the tour, $10 in advance. Call 773-4844 for tickets and information.

April 22 Thursday

Wetlands Month: "Missouri Wetlands"

7:30 p.m., Shoenberg Auditorium. Slide lecture by Doug Ladd, director of science and stewardship for Missouri Chapter of The Nature Conservancy, kicks off American Wetlands Month in May. Free admission, but please call Shaw Arboretum at 451-3512 to reserve a seat.

April 24 & 25
Saturday & Sunday

Garden Expo: "Southern Exposure"

9 a.m. to 5 p.m. daily. See page 11.

May 1 & 2
Saturday & Sunday

African Violet Council Show & Sale

9 a.m. to 5 p.m. daily, Orthwein Floral Display Hall. The Metropolitan St. Louis African Violet Council presents its 44th annual show and sale. Free with Garden admission.

Members' Days

On Members' Days, Garden members receive free tram rides, additional discounts in the Garden Gate Shop, and 10% off in the Gardenview Restaurant.

March 16 Tuesday

Caring for Your Trees

11 a.m., Shoenberg Auditorium. Join Skip Kincaid, owner of Skip Kincaid & Associates, a forestry consulting firm, who will offer valuable tips on caring for your trees and heading off problems before they start. Seating is on a first-come, first-served basis. Free, for members only. Members will receive an additional 5% discount on all pruners, tree care accessories, and books in the Garden Gate Shop.

April 8 Thursday

Missouri Gardeners' Guide

11 a.m., Shoenberg Auditorium. Mike Miller, well-known radio talk show host of "Garden Hotline" on KMOX 1120, is co-founder of The Bug Store and a gardener with 20 years' experience. Join him for a look at residential horticulture in Missouri. Seating is on a first-come, first-served basis. Free, for members only. Mike will sign his new book, Missouri Gardeners' Guide, after the lecture. Members receive an additional 5% discount on the book in the Garden Gate Shop.

Members

Members Board officers (from left): Gloria Strauss, Sue Breckenridge, Van Brokaw, Liz Teasdale, Carol Gaskin, and Susie Schulte.

PHOTOS BY TIM PARKER

New Board members (from left): Debbie Flowers, Marsha Rusnack, Claire Halloran, Nancy Sauerhoff, Sharon Kruszewski, Andy Dielmann, Carol Loeb, and Fran Fanara.

Members Board Elects New Officers

AT the annual luncheon meeting on January 11, 1999, the Garden Members' Board elected new officers and welcomed several new members to the Board. Mrs. Kenneth Teasdale was reelected as president. The new officers are Mrs. Robert Schulte, first vice-president; Mrs. James Breckenridge, second vice-president; Mrs. Fred Gaskin, corresponding secretary; Mrs. Gerhard Strauss, recording secretary; and Mr. Van Brokaw, treasurer.

New members of the Board are Mr. Andy Dielmann, Mr. Fran Fanara, Ms. Deborah Kruse Flowers, Ms. Claire Halloran, Mrs. Ronald Kruszewski, Mrs. Jerome T. Loeb, Mrs. William Rusnack, and Mrs. David Sauerhoff.

The Members Board organizes activities and fund raising events throughout the year and serves the Garden as ambassadors to the community.

New Members of the Peter H. Raven Society

The Peter H. Raven Society is named in honor of the Garden's director. Raven Society members make substantial unrestricted annual gifts to the Garden for three to five years.

Mr. and Mrs. David Farrell

Mr. and Mrs. John C. McPheeters

Mr. and Mrs. Hendrik Verfaillie

Save the Date — Friday, May 7

Mother's Day Luncheon and Fashion Show

Bring your mother and special guests to the Garden for our annual Mother's Day Luncheon, held under the outdoor tent. It's a delightful way to welcome springtime! Watch for your invitation in the mail.

Past Presidents of the Members' Board

Mrs. Robert H. Kittner

WHEN Mim Kittner joined the Members Board in 1972, Peter Raven had become director of the Garden just the year before, and he encouraged Mim to help build the Garden's membership base. Dr. Raven's confidence in her was amply rewarded — over the years he has often said, "Watch out for Mim, or she'll sell you a membership!"

In the early 1970s, the Garden had just under 3,000 members. Mim organized a series of morning coffees, entertaining 75-100 prospects at a time, and started biannual events at the Garden to welcome new members. She also did the preliminary research to start the Matching Gifts Program in the Development Office.

"In those days," she recalled, "the Membership Program was so small that we sent hand-written notes to encourage people to renew! It must have worked, because about 85 percent of our members renewed. There were about 20 of us on the Members' Board, and we met monthly in the Lehmann Building."

Mim was president of the Members Board from 1979 to 1981, and she continues to serve as a lifetime member. Over the years she has taken a special interest in helping to establish the Membership Services and Information Desk. Her enthusiasm and dedication to the Garden have never diminished; she is a friendly and welcoming presence at nearly every members' event.

"The Garden is a very special place to be involved," Mim said. "No money could buy the talent and generosity of our wonderful volunteers, and the staff make us feel so welcome." While Mim was president of the Members Board, the Trustees planted an oak tree near the Lehmann Building in her honor. At the time, C.C. Johnson Spink, president of the Board, said, "We made one mistake. We should have planted a mimosa, so we could call it 'The Mim Tree.'"

TIM PARKER

Enjoying the party (from left): Andy Dielmann, Anne Suppiger, Rich George, and Claire Halloran. The four were co-chairs for the Young Friends "Tropics Two" committee.

Gift Memberships — Every Day Is Mother's Day

Surprise your mom with a gift membership to the Garden — a gift she can use 365 days a year! Please call the Membership Office at (314) 577-5118, or stop by the Membership Services Desk or the ticket counter in the Ridgway Center.

Tower Grove House Thanks Holiday Decorators

Special appreciation goes to all the volunteers and staff who helped transform Tower Grove House for the Christmas holiday season. Participants included:

Joan Abeln
Botanicals on the Park
Four Winds Garden Club
Kirkwood Herb Guild
Mason Jar Questers
MBG Members Board
Southwoods Garden Club of Shrewsbury
St. Louis Herb Society
Tower Grove House Historical Committee
Tower Grove House Staff
Webster Groves Garden Club #4

Members Day Sponsor

Our thanks to Garden Heights Nursery for their sponsorship of our January Members' Day program, "Gardens at Home and Abroad."

Mark Your Calendar – Sunday, June 13

1999 St. Louis Garden Tour

Here is your opportunity to visit some of the loveliest private gardens in St. Louis, exclusively for Garden members and their guests. Watch the mail for your special invitation.

Young Friends Program

"Tropics Two" Welcomes New Members

Young Friends of the Garden held another successful bash for 272 guests ages 25 to 40 on February 6. A great time was had by all, and 26 new members joined the Garden.

Appreciation goes to the sponsors for the evening: Anheuser-Busch, Earthgrains, Flowers by Irene, Gardens by Hilary, Hereford Printing, Mt. Pleasant Winery, Paul Mirring Florist, and Seven-Up Bottling Co. of St. Louis.

Thanks also to the following donors who contributed to the evening's festivities: Chesterfield Athletic Club, Christian Dior, Commerce Bank, Creve Coeur Country Club, David Gladden Hair Salon, Dierdorf & Hart's, Dominic Michael Hair Salon, Frontenac Cleaners, Gino LaMartina's, Goulet Ltd. Hair Salon, Imagination Toys, Inmotion Health Center, Kids Sportworld, Magna Fitness, Marquess Gallery, Mary Kay Cosmetics, Mayer Homes, Mercantile Bank, Monograms for You, Neutrogena, Mrs. Fields Cookies, Picture Mart, Plaza Motors, Ronnoco Coffee Co., Sante Sports Travel, Simon's Jewelers, St. Louis Smoothies, TriBeCa, and Yia Yia's Euro Café.

In Memoriam

Mary Phelan Baudendistel

Garden members lost a dear friend with the sudden death of Mary Phelan Baudendistel on December 20, 1998, following an automobile accident. Mary, 37, had recently married Dr. Allen Baudendistel.

Mary joined the Garden Members' Board in 1994 and quickly became one of its most active and popular ambassadors. As the anchor of the five o'clock news on Channel 4 for almost eight years, she was well known to St. Louisans and she shared her love of gardening in her newscasts, often reporting from the Garden on events and programs. With her marriage, Mary left broadcasting to become director of sales and marketing for the Boone Valley Classic golf tournament.

At the Garden as in all aspects of her life, Mary gave unstintingly of her time and talents. She worked on many events, including Garden Expo and Best of Missouri Market, where she could often be found supervising children's activities. She helped with the annual Mother's Day luncheons and last spring's gala, "Impressions of Giverny," and she helped to launch the Young Friends' program, serving as honorary chair for the group's first party in 1997.

"Mary gave unselfishly to the Garden and to St. Louis. She had the wonderful gift of bringing out the best in everyone she met," said Patricia Arnold, director of development. "She was so full of life, and her energy and enthusiasm were infectious. We will miss her."

On October 21, 1998, the Board of Trustees named Marilyn Fox as a regular Trustee. At the same meeting, the Board elected three new members. Hendrik A. Verfaillie was elected to a two-year term, and Martin E. "Sandy" Galt III was elected to a three-year term. Samuel C. Davis, Jr. was named an Emeritus Trustee.

Hendrik A. Verfaillie

Hendrik A. Verfaillie, president of Monsanto Company, has been a member of the Garden since 1989. As president of Monsanto, Mr. Verfaillie is responsible for developing and executing an integrated strategy across the life sciences spectrum, with special emphasis on agriculture, food, and nutrition. He is a member of Monsanto Company's life sciences business team and serves on its board as an advisory director.

A native of Ardooie, Belgium, Mr. Verfaillie joined Monsanto in 1976 in Brussels and transferred to St. Louis in 1979. He was named president of the former Agricultural Group and a corporate vice president in 1993 and was appointed executive vice president of Monsanto in 1995. He holds a degree in chemical engineering from the University of Louvain and attended marketing management programs at the University of Antwerp.

In partnership with the Garden, Washington University, the University of Missouri-Columbia, and the University of Illinois, Monsanto helped to launch the Donald Danforth Plant Science Center last summer. With its naming gift for the Garden's new research facility, The Monsanto Center, Monsanto has provided major support for the Garden and its botanical research program as we enter the 21st century.

Martin E. Galt III

Martin E. Galt III is president of Institutional Investment Management for the Wealth Management Group of Bank of America, where he is responsible for TradeStreet Investment Associates, Inc., Boatmen's Capital Management, Inc., Sovran Capital Management, Gartmore Global Partners, and Chicago Equity Partners.

"Sandy" Galt, as he is known, has been a member of the Garden since 1982. He joined Boatmen's Trust Company in 1980 as vice president and general counsel. He was appointed president of the company in 1993, and in 1995 he was elected chairman and chief executive officer. Boatmen's was acquired by NationsBank in 1997.

Before joining Boatmen's, Mr. Galt was a partner in the law firm Thompson, Walther, Gaebe, and Frank, where he began his legal career in 1970. He earned his bachelor's degree from Washington and Lee University in Lexington, Virginia, in 1964, and he holds juris doctor and master of law degrees from Washington University School of Law.

In addition to serving as a Garden Trustee, Mr. Galt is on the boards of the Missouri Historical Society, St. Luke's Hospital, and the Dean's Advisory Council of the Webster University School of Business Management.

Samuel C. Davis, Jr.

Samuel C. Davis, Jr. represents the third generation of his family to serve on the Garden's Board of Trustees. Elected as an Emeritus Trustee in October, 1998, Mr. Davis continues the tradition established by his late father and grandfather, both of whom were also named Samuel C. Davis.

His father, always called Sam'l, was a Garden Trustee from 1960 to 1990, becoming emeritus in 1977. His grandfather served on the Board from 1920 to 1940.

Mr. Davis has been a member of the Garden since 1974. As a lifelong resident of St. Louis, he has enjoyed visiting the Garden over the years. Mr. Davis said he is looking forward to serving on the Board of Trustees and praised Peter Raven for his dynamic leadership. Mr. Davis is also an active board member for Churchill and Whitfield schools.

PHOTOS BY TIM PARKER

Warren Shapleigh, center, celebrated 40 years of service on the Board of Trustees in 1998. He is shown here with Peter Raven and David Kemper, president of the Board, at the December meeting. A profile of Mr. Shapleigh, honoring his extraordinary dedication to the Garden, appeared in the September/October 1998 issue of the *Bulletin*.

Library Receives Collection of Famed Paleobotanist

MISSOURI BOTANICAL GARDEN ARCHIVES

Prof. Daniel I. Axelrod, 1910-1998, during a visit to the Garden.

THE GARDEN LIBRARY is very grateful for the recent gift of an outstanding collection of books, reprints, and archives of the late paleobotanist Daniel I. Axelrod.

"Professor Ax," as he liked to be called, was the world's foremost authority on the relationship between fossil and modern plant communities. He was a professor of geology and botany at the University of California for more than fifty years.

Prof. Axelrod and Dr. Peter H. Raven collaborated to write *Origin and Relationships of the California Flora* and a number of scholarly papers. In Dr. Raven's words, Prof. Axelrod was "the first person who really carefully matched modern plant communities with fossilized ones . . . He made a fantastic contribution to our knowledge of what the vegetation of western North America has been like the last 40 million years."

The Axelrod collection will be a wonderful addition to the Garden library, one of the world's finest collections of books and related materials on taxonomy, evolution, conservation, and the geography of plants. For more about the library, visit the Garden's Web site at www.mobot.org.

MICDS Students Study Aquatic Ecology

Sixth grade science students at Mary Institute and Saint Louis Country Day School studied the ecology of their campus pond in November, with assistance from Garden instructors. The students gathered data, tested water samples, and learned about wetlands ecosystems. The sixth graders are shown with Bob Coulter, an instructor with the MBG Education Division.

TIM PARKER

30TH ANNIVERSARY – The Garden Guides celebrated their 30th anniversary last October. The Garden's founder, Henry Shaw, was an honored guest at the celebration, and he is shown here (portrayed by actor Joneal Joplin) with two members of the original class of volunteer docents, Shirley Durfee (left) and Edna Dependahl, both of whom are still active Guides.

MBG Natural History Adventure – September 11 – 26, 1999

The Best of South Africa

Experience a magnificent country of vivid contrasts forged from the traditions of Africa, Europe, and Asia. This exciting trip offers 16 days of wildflowers, rare plants, birds, forests, migrating whales, big game animals, breathtaking scenic beauty, and cities that blend Old World charm with New World culture. Visit Cape Town, Table Mountain, Kirstenbosch Botanical Garden, Little Karoo Desert, and the world famous Mala Mala Game Reserve.

The trip is limited to 16 people. Please call (314) 577-0296 for more information.

THE GARDEN ON TV — In recent months, the Garden has been featured on television programs and documentaries all over the world. In January, Chinese Central Television had an award-winning director and crew at the Garden for three days to film part of a six-hour documentary on biodiversity. The Chinese are shown here filming tropical plants in the research greenhouse with MBG horticulturist Cheryl Neuman. The BBC Weather Channel, The Discovery Channel, Japanese television, and HGTV have sent crews to film at the Garden.

Tribute Gifts Honor Family and Friends

A TRIBUTE GIFT is a wonderful way to honor and remember your family and friends. When you make a tribute gift to the Garden, your donation helps to keep the grounds blooming and supports the Garden's programs in a very special way. A personal acknowledgment of your tribute is sent to the family or individual honored, without reference to the size of the donation, and your gift is listed in the Garden's Bulletin. To make a tribute, simply complete and return the special envelope enclosed in this issue.

We hope you think of the Garden as the perfect place to pay tribute to your friends and family for any occasion. For more information about our Tribute Program, please contact Kelly Dopman at (314) 577-0847.

In Memoriam

W. Boardman Jones, Jr.

W. BOARDMAN JONES, JR., a longtime volunteer at the Garden, died November 21, 1998, after a brief illness. He was 83.

Affectionately known as "Boardy," Mr. Jones was a Master Gardener and a regular on the Friday morning crew at the Horticultural Answer Service since 1987. Chip Tynan, manager of the Answer Service, said, "Boardy was such a congenial fellow — it just lifted your spirits to be around him. His sense of humor was delightful and self-deprecating, and he made other people shine. He was a wonderful volunteer, enthusiastic and knowledgeable, with an insatiable appetite for learning. Anyone who called the Answer Service and got Boardy on the phone was lucky — they got the best possible information and made a friend, too."

A native of St .Louis, Mr. Jones retired from Mercantile Trust Company in 1980 and was active in an extraordinary range of organizations. He served on the board of the St. Louis Symphony Society and The Muny, and was president of the board of St. Luke's Hospital, Central Institute for the Deaf, and the Bellefontaine Cemetary Association. Mr. Jones attended St. Louis Country Day School and graduated from Deerfield Academy and Princeton University.

As Chip Tynan said, "With all Boardy did for the community, St. Louis is a much nicer place to live because of him."

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NOV – DEC 1998

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Missouri
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MAY / JUNE 1999

Celebrate Rose Evening
May 28
See page 12

Volume LXXXVII
Number three

You don't need to restore acres of land to make a positive impact on our world.

MARY ANN KRESSIG

Wildflower Gardening

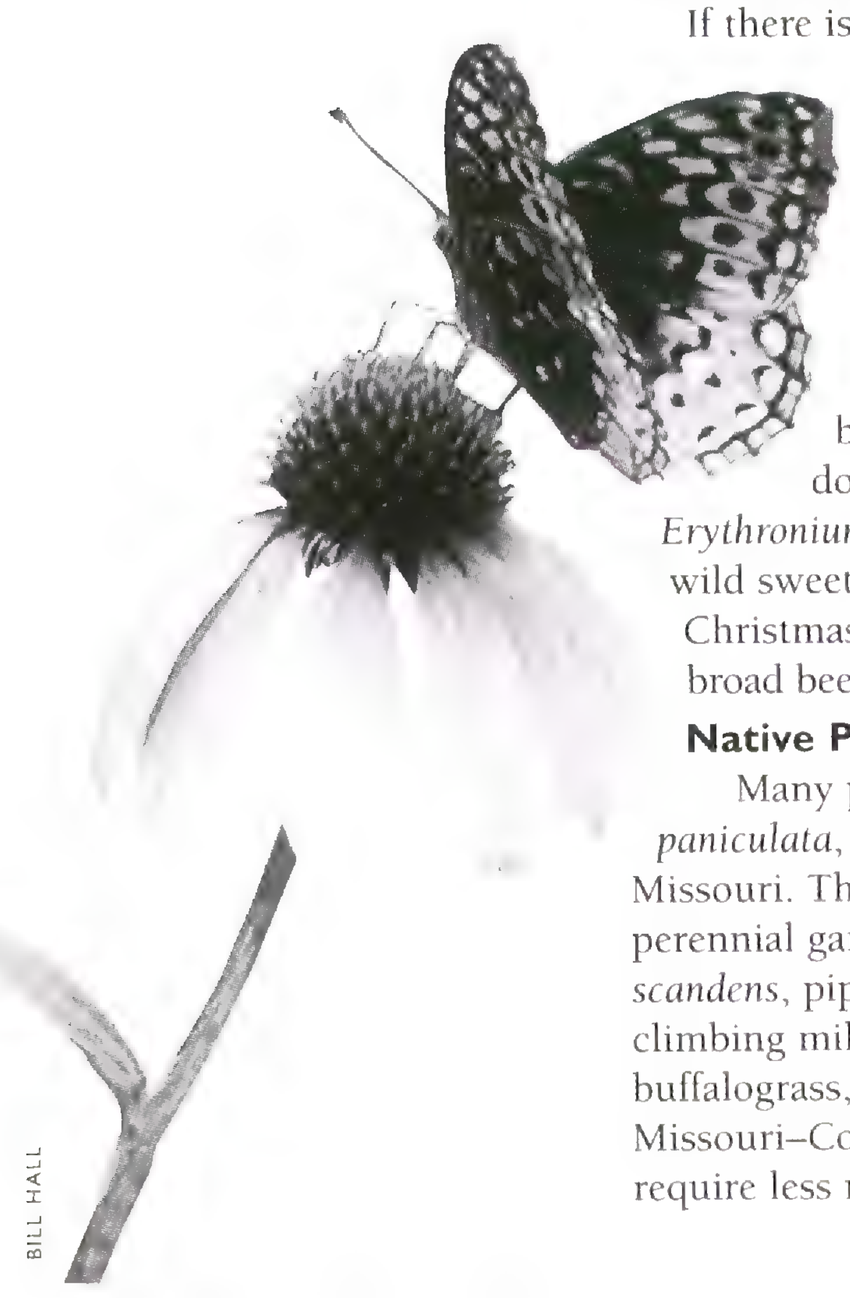
by Scott Woodbury

Discover the delights of a natural garden at the newly renovated Home Gardening Demonstration in the Whitmire Wildflower Garden.

The new feature has six backyard-size gardens planted with a wide variety of useful and showy native plants.

Water Garden

If there is water in your garden, then birds, dragonflies, and frogs will follow. Our new water garden has been built with the backyard gardener in mind, using simple and inexpensive materials. Water trickles from a boulder birdbath into the pond. Birds splash and fly to nearby coneflowers, *Echinacea simulata*, sunflowers, *Helianthus* spp. and black-eyed-Susans, *Rudbeckia* spp., to eat seeds.



BILL HALL

Woodland Garden

Each spring from March through May, Missouri woodlands produce a beautiful display of wildflowers that bloom before the trees leaf out and go dormant soon after flowering. Some of these spring ephemerals are troutlily, *Erythronium albidum*, bloodroot, *Sanguinaria canadensis*, crested iris, *Iris cristata*, and wild sweet William, *Phlox divaricata*. They are accompanied by lush green masses of Christmas fern, *Polystichum acrostichoides*, maidenhair fern, *Adiantum pedatum*, and broad beech fern, *Thelypteris hexagonoptera*, which provide peaceful color in summer.

Native Perennial Garden

Many popular common perennials, such as coreopsis, garden phlox, *Phlox paniculata*, and blue wild indigo, *Baptisia australis*, can be found growing naturally in Missouri. These and many other showy Missouri natives are growing in the new perennial garden, accompanied by native vines including bittersweet, *Celastrus scandens*, pipevine, *Aristolochia tomentosa*, passionflower, *Passiflora incarnata*, and climbing milkweed, *Matalea decipiens*. A turf area is planted with an improved variety of buffalograss, *Buchloe dactyloides* 'Mo-buff', developed at the University of Missouri–Columbia. Buffalograss lawns are attractive, hold up to heavy traffic, and require less mowing, watering, and fertilizing than traditional lawn grasses.

This page: A timber frame arbor, designed by the Arboretum's master carpenter, David Hicks, is the centerpiece of the new Home Gardening Demonstration Area at Shaw Arboretum.

Opposite page: A view of the Whitmire Wildflower Garden, a five-acre display of Missouri plant communities, including prairie, savanna, glade, woodland, and wetland.

By gardening with wildflowers, you can take an active part in restoring the land to health. You'll use a lot less fertilizer, pesticides, and water, and you'll produce a beautiful garden alive with a balance of beneficial insects, birds, and amphibians.

MISSOURI BOTANICAL

MAY 0 4 1999

GARDEN LIBRARY

Native Rock Garden

The showiest wildflowers in Missouri exist on limestone glades. They are seldom grown in home gardens because they need rocky, well-drained soil. If you are blessed with a pile of rocks or concrete rubble, you have the perfect base for a native rock garden. Just add gravel, a dash of topsoil, and a diversity of glade plants. Wild crocuses, Trelease's larkspur, *Delphinium treleasei*, purple beard-tongue, *Penstemon cobaea*, and bird's foot violet, *Viola pedata*, are just a few of the possibilities you'll see here.

Composite Garden

Composites belong to the daisy family, the largest plant family in Missouri. There are 274 species native to Missouri, many of which are displayed in the new garden. Common ones include sunflowers, asters, black-eyed-Susans, coreopsis, goldenrods, *Solidago* spp., and blazing stars, *Liatris* spp. The plants are called composites because they have many small flowers, or florets, clustered on a common receptacle.

Osage Garden

The prairies, wetlands, savannas, and woodlands of Missouri were like a pharmacy, grocery, and hardware store to Native Americans. Native foods include pawpaws, *Asimina triloba*, ground cherries, *Physalis virginiana*, hickory nuts, *Carya* spp., wild beans, *Phaseolus polystachios*, and Jerusalem artichokes, *Helianthus tuberosus*. Learn about medicinal plants, such as *Echinacea* and goldenseal, *Hydrastis canadensis*, and fiber plants, including swamp milkweed, *Asclepias incarnata*, and rattlesnake master, *Eryngium yuccifolium*. The display includes a replica of an Osage shelter made of natural materials, where we will display cordage, baskets, tools, and various foods in season.

The new Home Gardening demonstration was designed by Environmental Planning and Design of Pittsburgh. It was built and planted by Arboretum staff, including David Hicks, Matt Broderick, and Terri Brandt.

TRENT FOLTZ

SCOTT WOODBURY is a horticulturist at Shaw Arboretum, where he has been developing the Whitmire Wildflower Garden for seven years. Scott earned a bachelor's degree in horticulture from University of Wisconsin–Madison and has worked at several public gardens, including Old Westbury Gardens in New York, Longwood Gardens in Pennsylvania, Castello Di Uzzano in Florence, and Tudor Palace in Washington, D.C. He is president of the St. Louis Chapter of Wild Ones, a non-profit organization dedicated to promoting biodiversity and environmentally sound gardening practices using native plants.

Spring Wildflower Sale

Saturday, May 15

9 a.m. to 4 p.m.

Shaw Arboretum

Free sale admission

Plenty of free parking

Get your wildflower garden off to a fine start with the best selection of native plants and seed in the St. Louis area. Several local nurseries offer the showiest and hardiest native plants for sun or shade. All plants on sale are nursery propagated, not harvested in the wild. All proceeds from the sale benefit the Whitmire Wildflower Garden.

May Is Wetlands Awareness Month

Watch for pond and wetland plants at the sale and see page 11 for special activies.

Shaw Arboretum is located in Gray Summit, Missouri, 40 minutes west of St. Louis on I-44. Admission is free to Garden members. For more information, call the Arboretum at (314) 451-3512.

Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

WHEN Henry Shaw used his personal fortune to establish the Missouri Botanical Garden, he could not have imagined how his Garden would grow. Just 25 years ago, only ten acres of the Garden were developed, the operating budget was $920,000, there were 4,000 members, and our educational activities served 20,000 people. Today some 79 acres have been developed into splendid horticultural displays, the annual budget is more than $21 million, we have more than 34,500 members, and our education programs serve 134,823 children and adults.

This phenomenal growth has been driven by the urgency of our mission and our abiding commitment to public service. As the demands for the Garden's leadership and expertise have grown, so too have the demands on our resources.

I am sure Henry Shaw expected his endowment to support the Garden forever. Today, however, we are faced with the challenge of maintaining the programs and services people have come to expect from the Missouri Botanical Garden. General operating support is not glamorous, but it is the lifeblood of a successful institution.

To ensure that the Garden remains vital and vigorous for future generations, we are dedicated to building the endowment. Beginning with this issue of the *Bulletin*, we will take a look at opportunities for named endowment gifts and what they can mean to you.

For 140 years, the people of St. Louis have shown extraordinary generosity in supporting Henry Shaw's legacy. As Garden members, each of you shares in that tradition. We deeply appreciate your commitment and look forward to working together to ensure our future.

— Peter H. Raven, Director

New Research Exhibit Honors the May Department Stores Company

TIM PARKER

A handsome wall panel featuring the Garden's worldwide research program is on display in the Ridgway Center. The new exhibit honors the $1 million dollar gift from the May Department Stores Company and its Famous-Barr and Lord & Taylor Divisions to the Partnership Campaign. Patricia Arnold, director of development, said, "We are very grateful to the May Department Stores Company for their wonderful support. This exhibit gives us an opportunity to present our research program to everyone who visits the Garden."

24-Hour Information:
GardenLine – 577-9400
Or call 1-800-642-8842.

24-Hour Gardening Tips:
HortLine – (314) 776-5522
Request a brochure from the Kemper Center for Home Gardening at (314) 577-9440, or send a stamped, self-addressed envelope to HortLine at the address below. Or see the Garden Web site, www.mobot.org.

24-Hour Employment/Volunteer Hotline: (314) 577-9401
Or see www.mobot.org.

Horticulture Answer Service: (314) 577-5143
9:00 a.m. to noon, Mon. – Fri.

Master Composter Hotline: (314) 577-9555
9:00 a.m. to noon, Mon. – Fri.

Mailing Address:
Missouri Botanical Garden
Post Office Box 299
St. Louis, Missouri 63166-0299
(314) 577-5100

Visit the Garden Web site: www.mobot.org

Garden Hours
9 a.m. to 5 p.m. every day except Christmas; 9 a.m. to 8 p.m. Memorial Day through Labor Day. Grounds open 7 a.m. Wed. & Sat.

Shaw Arboretum: (314) 451-3512.

On the Cover
Roses are spectacular all summer long in the award-winning Lehmann and Gladney Rose Gardens.
– Photo by Jack Jennings

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, call (314) 577-5118.

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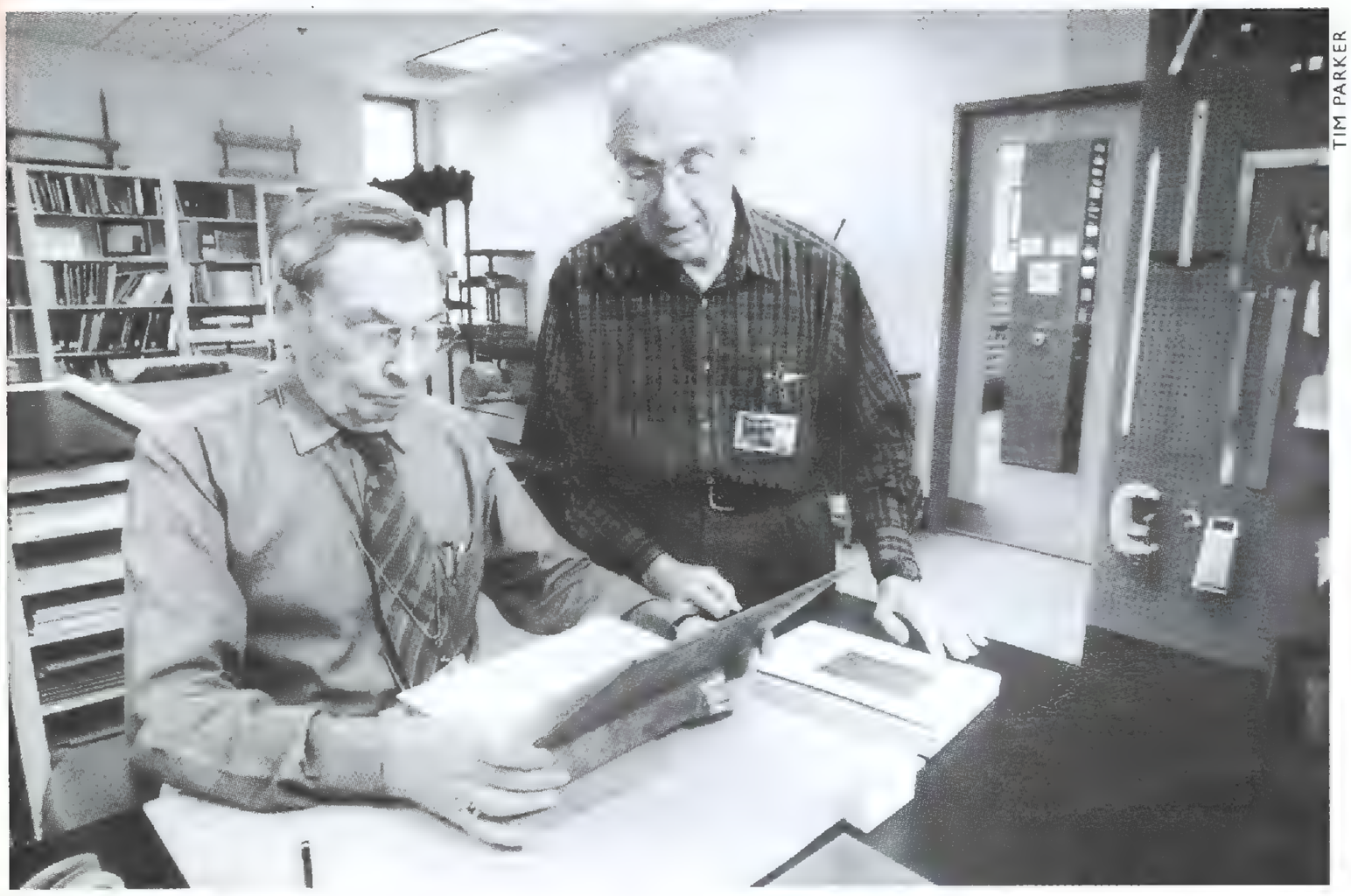
How one
brick
can make
every visit
to the
Garden
a truly
special
time.

Gifts & Grants



TIM PARKER

Volunteer Patrick Kegin, left, discusses book conservation techniques with William Ellerman in the Library Conservation Center.

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grateful to Bill Ellerman for recognizing the need and responding with such generosity."

In the meantime, the Conservation Center volunteers are doing a magnificent job. Currently there are six: Armyn Spies, Patrick Kegin, Jane Thomas, Pricilla Rodriguez, Jerome Schiller, and Sophie Connor. Three were trained by the last Garden conservator, and each contributes special skills to the work.

For more information on the Ellerman Challenge, please call Kelly Dopman in the Development Office at (314) 577-0847.

A Lasting Gift

Bricks Make Every Visit Special...

EACH TIME Garden members Rich and Barb Redohl bring their grandchildren to the Garden, the kids have a wonderful time hunting for bricks with their names on them. And their three-year-old granddaughter leads the way!

The Redohls celebrated the birth of each grandchild by purchasing a brick engraved with the child's name in the Members' Entry Court at the William T. Kemper Center for Home Gardening. They plan to purchase a brick for each new grandchild.

For $300 for an engraved clay brick or $1,000 for a bronze "signature" brick, you can make a very personal gift that becomes a permanent feature of the Garden. You will receive an acknowledgment for the person being honored, and your tribute will be listed in the *Bulletin*.

Bricks are donated for all the occasions that fill our lives — birthdays, graduations, marriages, holidays, unique accomplishments, and retirements, as well as memorial tributes. For more information regarding the Garden's brick program or to order your brick, please see the brochure enclosed in this issue of the *Bulletin*, or telephone Teri-Ann Wallace at (314) 577-9495.

Shaw Arboretum

Volunteer JoAnne Blumenthal teaching a class at Shaw Arboretum.

New Teacher-Naturalists Needed

EACH FALL AND SPRING, beginning with the Maple Syrup class in February, volunteer Teacher-Naturalists come to Shaw Arboretum to work outdoors with groups of schoolchildren. Each instructor works one day a week.

There are currently about 20 Teacher-Naturalists (TNs). These remarkable volunteers have a wide variety of backgrounds and skills, but each has a strong commitment to sharing their knowledge and love of nature with children. Some TNs are former teachers, but the group also includes cartographers (map makers), artists, a salesman, engineers, and microbiologists.

Training for Teacher-Naturalists begins next fall, and the Arboretum is looking for new recruits. Some knowledge of nature is useful, but flexibility and enthusiasm are even more important.

If you are interested in creating exciting educational experiences for children while learning more about the natural world, please call Miriam Krone at 451-3512.

A National Bluebird Survey

Lynn Wakefield, left, and Claire Meyners examining a nest box at the Arboretum.

SHAW ARBORETUM participated in a national bluebird survey conducted by Cornell University last year, thanks to the work of two volunteers, Claire Meyners, Ph.D., and Lynn Wakefield, M.D.

For many years, the Eastern bluebird, Missouri's state bird, has been losing nesting sites as dead trees are removed and wooden fences are replaced with metal. The Arboretum has installed nest boxes to encourage populations of bluebirds.

Dr. Meyners and Dr. Wakefield monitored 76 nest boxes at the Arboretum twice a week from April through July to determine how many eggs were laid and how many young birds survived to leave the nest. The nest boxes are predominantly used by bluebirds, but chickadees and house wrens occasionally move in.

The two volunteers found that although many eggs were laid, 67 percent of the nests suffered predation by snakes and raccoons. This year the Arboretum staff will relocate some of the boxes and will install metal guards on others, in hopes that more young birds will fledge this spring.

The two volunteers were assisted by Bob Meyners, Ph.D., Claire's husband, who repaired and maintained the nest boxes. Watch for the colorful bluebirds when you visit the Arboretum this year.

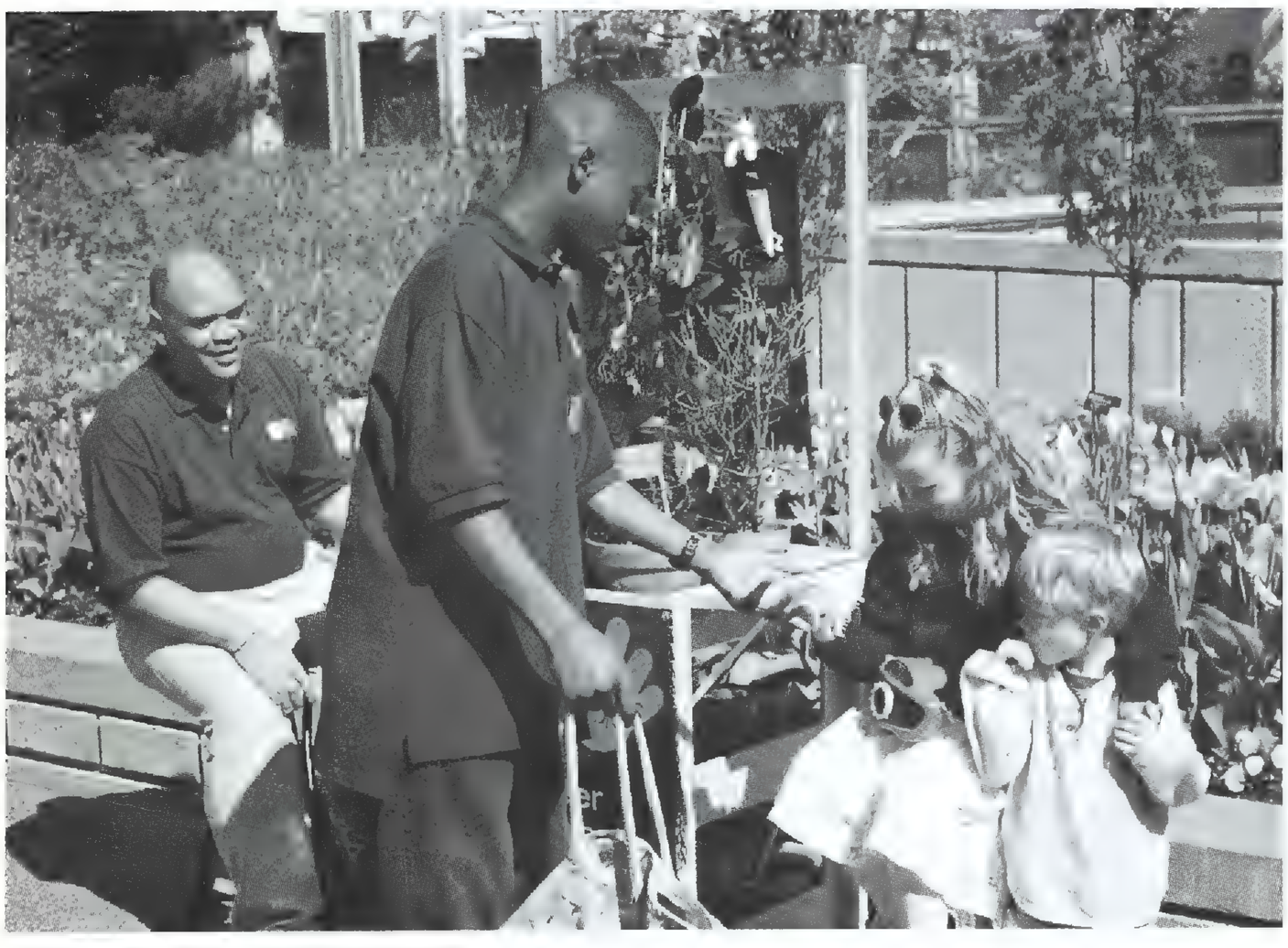
— Lydia Toth, manager of education, Shaw Arboretum

A New Forest

This spring, Shaw Arboretum planted 4,600 trees on 12.5 acres on the south side of the Meramec River. The effort was part of the Conservation Reserve Program sponsored by the U.S. Department of Agriculture and administered by the Farm Service Agency of Franklin County. The tree seedlings and planting equipment were provided by the Missouri Department of Conservation.

"Converting frequently flooded crop land into hardwood bottomland forest significantly decreases soil erosion during flooding, increases wildlife habitat, and widens the greenway along the Meramec River," said John Behrer, director of Shaw Arboretum. "We are grateful for the support for our continuing efforts to restore native Missouri habitats at the Arboretum."

CLIFF WILLIS



Volunteer Interpreters Rudy Nickens, left, and his son Barak Tiari, center, demonstrate some fun facts about plants for two young visitors.

Making Science Fun

THE young and the young at heart are learning about the wonderful world of plants when they visit the Garden this spring and summer. The Volunteer Interpreters and their colorful carts can be found at various locations throughout the Garden grounds on Saturdays and Sundays.

With props and imagination, the volunteers present basic science concepts to delight all ages. They have activities for families to do during their visit to the Garden, with prizes for kids. Maybe the most important thing the volunteers do is to answer questions. On their very first day they talked with over 500 visitors.

If you like people and enjoy learning new things, the Interpreters are looking for more volunteers to help out this summer. For more information about the program, which includes training, please call the Education Division at (314) 577-5140.

Daylily Society Keeps the Flowers Blooming

STROLLING among the curving beds of colorful blossoms in the Jenkins Daylily Garden, you may imagine that a platoon of gardeners is toiling away to keep it perfect. Not so — the display is maintained by just four volunteers from the Missouri Botanical Garden Daylily Society. For more than a decade, the group has gathered every Monday morning and many Wednesdays from April to late October.

The volunteers — Chick Buehrig, Mirko Bolanovich, Bob Hudson, and Martin Meagher — care for a collection of 1,200 different daylily plants in every possible color and shape. Sanctioned by the American Hemerocallis Society (AHS), the Jenkins Daylily Garden features beds of award-winning hybrids, including the winners of the AHS Stout Medal for the past 15 years.

In August the Society holds an annual sale of extra plants at the Garden, with help from the West County Daylily association. Thousands of plants are offered at the popular annual event, and all proceeds are donated to the Garden to purchase plants for the new season. Since 1990, the Society has made extremely substantial donations to help the Horticulture Division purchase equipment, including a Cushman cart (in conjunction with the Iris Society) and a zinc label machine.

Jason Delaney, the Horticulture staffer who supervises the group, says, "In addition to their work in the Jenkins Daylily Garden, the volunteers also help out with the Samuels and Heckman Bulb Gardens and the daylily beds at the National Council of State Garden Clubs. They are great to work with, and they are a vital resource for the Garden."

Members of the MBG Daylily Society at work in the Jenkins Daylily Garden (from left): Marty Meagher, Mirko Bolanovich, and Chick Buehrig. Not pictured: Bob Hudson.

Trendy Tropicals

by Chip Tynan

ONE OF THE MOST EXCITING TRENDS in gardening is the explosion of interest in new and underutilized tropical and sub-tropical plants for outdoor summer display. Watch for our tropical garden in the Flower Trial Garden at the Kemper Center this summer — the brilliant colors will be dazzling.

Huge leafy banana plants and flowering Chinese hisbiscus have been familiar in local gardens for years. Gaining in popularity are mandevillas, with large rose-pink, funnel-shaped flowers, and the exotic, pendulous, fragrant blooms of angel's trumpets, *Brugmansia* spp.

This summer we will feature some species that have not yet become widely available at local garden centers, although we have been using them for many years in bedding displays here at the Garden. These include yellow-leaved Jacob's coat, *Acalypha wilkesiana* 'Kona Coast', and Persian shield, *Strobilanthes dyerianus*, whose irridescent, metallic leaves never fail to draw *oohs* and *aahs* from visitors. Hawaiian snowbush, *Breynia nivosa* 'Rosemarginata', a sub-tropical shrub noted for its variegated compound leaves mottled with red, white and green, is a veteran of many indoor flower shows.

Two selections are sure to delight gardeners seeking outstanding flower production. Firebush, *Hamelia patens*, is a native of south Florida that blooms nearly year-round in the Climatron® displays, and firecracker plant, *Cuphea ignea*, is a houseplant that flowers non-stop outdoors from summer until frost. As an added bonus, the tubular red blossoms of both species are virtual magnets for visiting hummingbirds.

Don't worry that because some of these plants are unfamiliar, they may be difficult to grow. Many tropicals have been mainstays in the house and garden since Victorian times, and most species commonly grown as houseplants originate in the tropics. Popular herbaceous bedding plants such as scarlet sage, marigolds, coleus, vinca (Madagascar periwinkle), and impatiens, among many others, are not only of tropical origin, but also easy to care for.

Contrary to popular perception, not all tropicals require the shaded environment conjured up by the image of a dense jungle-like forest. Just as temperate habitats range from hot, dry glades to cool, moist forests, there many different and distinct habitats in tropical regions.

A great many tropicals perform splendidly when placed outdoors in our gardens in sunny locations. Choose a site that affords some protection from

CHIP TYNAN manages the Missouri Botanical Garden's Horticulture Answer Service, overseeing a staff of 50 volunteers who field some 28,000 questions phoned in each year. An old-time generalist in a field increasingly dominated by specialists, Chip manages to stay current in the many aspects of modern horticulture. He is respected and admired for his unparalleled experience as a self taught, lifetime gardener. Well known locally for the weekly column he writes for the St. Louis Post-Dispatch, *Chip regularly teaches adult education courses at the Garden, gives many talks to gardening clubs, and is frequently called upon by local TV and radio stations to speak on a wide variety of gardening subjects. He has been on the staff at the Garden since 1986.*

TRENT FOLTZ

prevailing winds, and prepare the soil as though you intend to grow vegetables. This is not unreasonable when you consider that tomatoes, summer squash, and peppers, as well as many of our other popular summer vegetables, are tropical species.

Deep, loose beds of well-drained loamy soil enriched with abundant organic matter will yield excellent results. A regular supply of water will be necessary during hot, dry times. Many tropicals are fairly heavy feeders, and timely applications of water-soluble fertilizers applied every other week will help maintain vigorous growth.

When you visit our tropical display, don't expect an immediate effect. The plants will initially be small when bedded out this spring, but growth will become increasingly more dramatic with each passing week. The garden's peak will occur in late summer and will continue well into the cooler nights of autumn. Many of the plants will continue to flower freely until frost finally arrives.

One of the beauties of a tropical garden is that most of the plants can be cut back, potted into containers, brought indoors, and either allowed to rest during the winter in a cool, frost-free location, or grown in a greenhouse or a warm, moist sunroom. Many are just as easy to overwinter as a hibiscus. This is especially true of the woody specimens, whose ultimate charm becomes enhanced over time as they mature.

Some Plants in the 1999 Kemper Tropical Garden

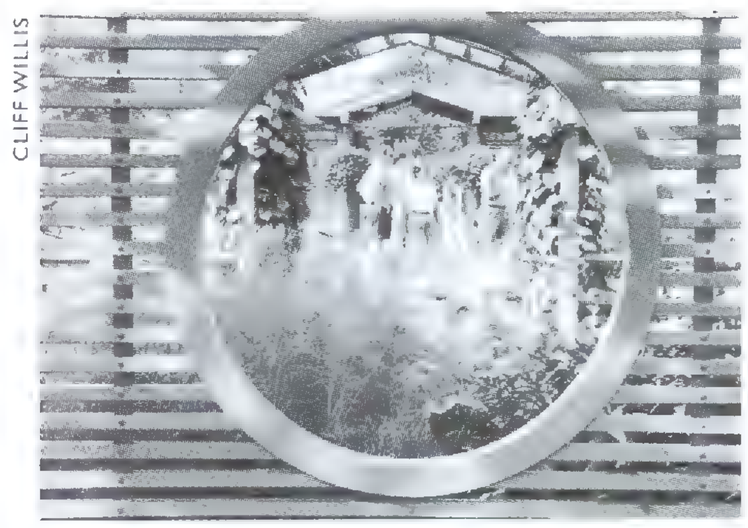
Abutilon 'Clementine'	Flowering maple
Acalypha 'Cypress Garden Elf'	
Acalypha wilkesiana	Jacob's coat
Acalypha wilkesiana 'Kona Coast'	Yellow Jacob's coat
Allamanda sp.	Allamanda
Angelonia angustifolia 'Hilo Princess'	
Breynia nivosa 'Rosemarginata'	Hawaiian snowbush
Brugmansia spp.	Angel's trumpet
Canna 'Bengal Tiger', 'Pretoria', 'Phasion', 'Tropical Red'	Canna lily
Citrus sp.	Calamondin orange
Clerodendrum ugandense	Butterfly bush
Cuphea ignea	Firecracker plant
Duranta repens	
Evolvulus 'Blue Daze'	Evolvulus
Graptophyllum pictum	Caricature plant
Hamelia patens	Fire bush
Hemigraphus alternata	Red ivy
Hibiscus acetosella	Maroon-leaved hibiscus
Hibiscus rosa-sinensis	Chinese hibiscus
Lantana montevidensis	Shrub verbena
Mandevilla spp. (syn. *Dipladenia*)	Mandevilla
Musa 'Red Dwarf'	Dwarf banana
Musa lasiocarpa	
Pachystachys lutea	Golden candle
Plumbago auriculata	Cape leadwort
Psidium sp.	Guava
Pseuderanthemum sp.	
Sanchezia sp.	
Solanum jasminoides 'Green Leaf'	
Strobilanthes dyerianus	Persian shield
Tibochina semidecandra	Glory bush
Tradescantia pallida	Purple heart

Familiar annuals:

Pennisetum setaceum 'Rubrum'
Salvia greggii 'Wild Watermelon'
Salvia guaranitica

What's Coming Up

At the Kemper Center for Home Gardening



CLIFF WILLIS

Work n' Tell Demonstrations

Saturday mornings in June, 11 a.m. to noon

Summer Plant House

Drop in for free hands-on demonstrations with St. Louis Master Gardeners. No registration required.

Featured in June: Container Plants

June 5	**Vegetables for Containers**
June 12	**Herbs for Containers**
June 19	**Sun and Shade**
June 26	**Unusual Containers**

Master Gardeners Answer Desk

Wednesdays and Saturdays through October 16

10 a.m. to 1 p.m.

Outdoors in the Kemper Center Gardens, at the entrance to the Garden for All. St. Louis Master Gardeners will be on hand to answer your questions.

CLIFF WILLIS

"Slim Dandy"

This eight-foot scarecrow and his faithful dog are standing guard in the Vegetable Garden at the Kemper Center. They are just two of more than a dozen whimsical "Willow Works" figures by local artist Kathlene Weltzen which are on display in the Kemper Center gardens throughout the summer. The delightful larger-than-life sculptures are made of wood, metal and fabric. Keep an eye out for the giant snail, a monarch butterfly, a spider with a web, dragonflies, honeybees, birds and more.

Rose Gardens Win AARS Award

For the third year in a row, the Gladney and Lehmann rose gardens have been honored by All-America Rose Selections for outstanding maintenance.

Magnolias

WITH the exceptionally beautiful spring weather this year, our flowering trees put on a spectacular show. For once, the local saying didn't hold true that "we're sure to have a frost when the magnolias begin to bloom."

As St. Louis gardeners know to their grief, a late frost is all too common in our area. Let the temperature dip below 32°F, and overnight a beautiful tree can look as though Jack Frost hung brown rags in it. With the changeable climate in this region, the only sure thing about damaging frost is that it will surely strike again.

JACK JENNINGS

And damage may not be limited to the flowers. In March of 1992 and again last year, just as magnolias were blooming, our temperatures plunged from unseasonably warm levels into the lower teens. The result was widespread dieback of stems and branches, which will require corrective pruning over several growing seasons.

To grow magnolias successfully in this region, select cultivars that tend to bloom a little later than standard types. Look for star magnolias 'Royal Star' and 'Water Lily'. Desirable saucer magnolias include 'Brozzonii', 'Speciosa', 'Lennei', 'Superba', and 'Verbanica'. 'Alexandrina' is an early blooming saucer type, but its buds open over a long period and are rarely frosted completely. Among the popular Loebner magnolias, 'Leonard Messel' and 'Merrill' are frequently among the first casualties of late frosts; 'Spring Snow' and 'Ballerina' tend to bloom slightly later.

Among the most reliable early magnolias for this area are a group of hybrids resulting from crosses between a lily magnolia, *Magnolia liliflora* 'Nigra', and a star magnolia, *Magnolia stellata* `Rosea'. These include 'Ann', 'Betty', 'Randy', 'Ricki', and 'Susan'. All have a compact, somewhat shrubby growth habit, making them ideal choices for smaller landscapes. 'Betty', 'Ricki', and 'Susan' mature at about 10 to 15 feet in height, while 'Randy' and 'Ann' grow 8 to 10 feet tall. Two other hybrids, 'Galaxy', and 'Spectrum', reach 20 to 30 feet in height.

Site selection is crucial. A northern exposure protected from prevailing winds is best. In the wild, most magnolias are understory trees of deciduous forests, found in well drained, slightly acidic soils rich in organic matter. Though they grow well in full sun as long as they receive ample water during dry spells, magnolias growing in partly shaded sites will be more reliable bloomers.

— Chip Tynan, MBG Horticulture Answer Service

CLIFF WILLIS

Lopata Lantern

This beautiful stone lantern is a gift from the Lopata family in memory of Stanley Lopata's brother, Edwin L. Lopata, 1909–1998. The lantern was erected recently at the south end of the Japanese garden. Located near the fence along Magnolia Avenue, the lantern is a handsome traditional addition to the Garden landscape.

Charitable Gift Planning

Your Will, Your Wishes

A well-thought-out will works in concert with other estate planning tools. If you don't have a legal will, consider the following:

1. You shouldn't assume "my spouse gets everything." The state may set aside part of your assets for your children when they come of age. In that event, your spouse will have to obtain permission from the probate judge to use these funds for the children's benefit. Your will, however, can eliminate these restrictions.

2. You shouldn't assume estate taxes and court costs are the same with or without a will. Court costs are usually higher when there is no will. Tax-saving arrangements can often be included in a will to help conserve your property.

3. You shouldn't assume that any of your assets will go to charity. Even if you have told your spouse or close friends of your wish, by law the court cannot take such action. Your wishes, however, can be carried out if you include bequests in your personal will.

Free Information

The Garden offers the booklet "Why Your Will Is So Important," recommended for anyone who does not have a will or is considering revising one. For your free copy of the booklet, or if you would like to receive "Heritage," the Garden's special gift planning newsletter, please call Judi Schraer (314) 577-5120, write to Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166, or email judi.schraer@mobot.org.

Calendar of Events

May & June

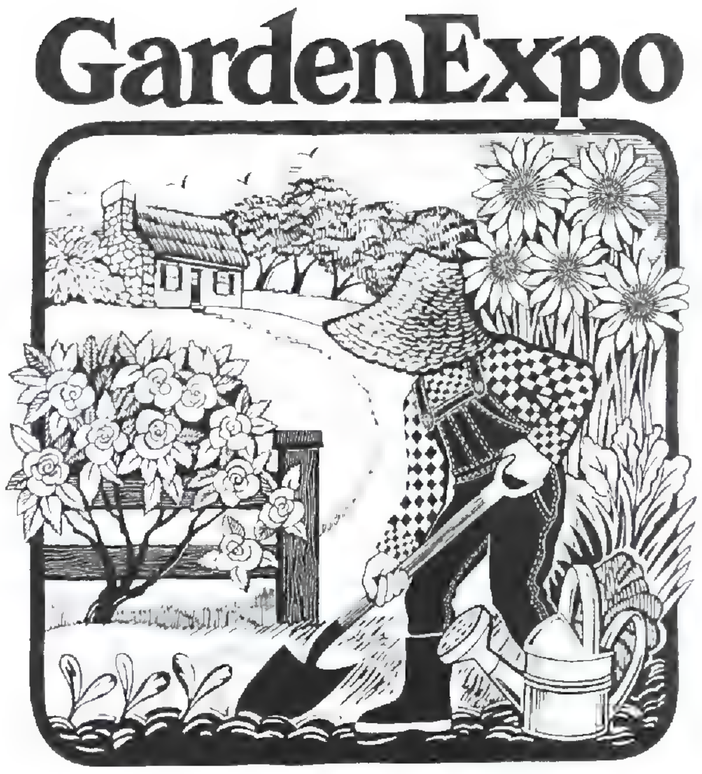
May 1 & 2 Saturday & Sunday

May Day Picnics

Bring your basket and a blanket, and picnic on the Garden grounds!

Weekend Highlights:

Mark Kane of Better Homes and Gardens
Sat. 10 a.m. "The Art of Combinations"
Sunday 11 a.m. "Garden Philosophies"
African Violet Society Show and Sale
Maypole Celebration with English Country Dancers and Capering Roisters
Carmina Burana – *Performances by Missouri Choral Society Sat. 7:30 p.m. & Sun. 3 p.m.*
Japanese Garden Tours 11 a.m. & 1 p.m. daily
Demonstrations at Kemper Center
Kids' Treasure Hunt
Special Promotions in the Garden Gate Shop



May 8 & 9 Saturday & Sunday

Mother's Daze

Instead of taking flowers to Mom, bring Mom to see the flowers!

Weekend Highlights:

Rose Society Miniature Rose Sale
Mother's Day Buffet in Gardenview Restaurant
Bagpiper Laura Hartung on the grounds
"What's in Bloom?" Tours 11 a.m. & 1 p.m. daily
Demonstrations at Kemper Center
Kids' Treasure Hunt
"Garden Railways" Exhibit
Attendance Prize Drawings:

- *Wheelbarrow of Supplies from Gerber Gardens and Florist*
- *Tanaka Lawn & Garden Trimmer from Outdoor Equipment*

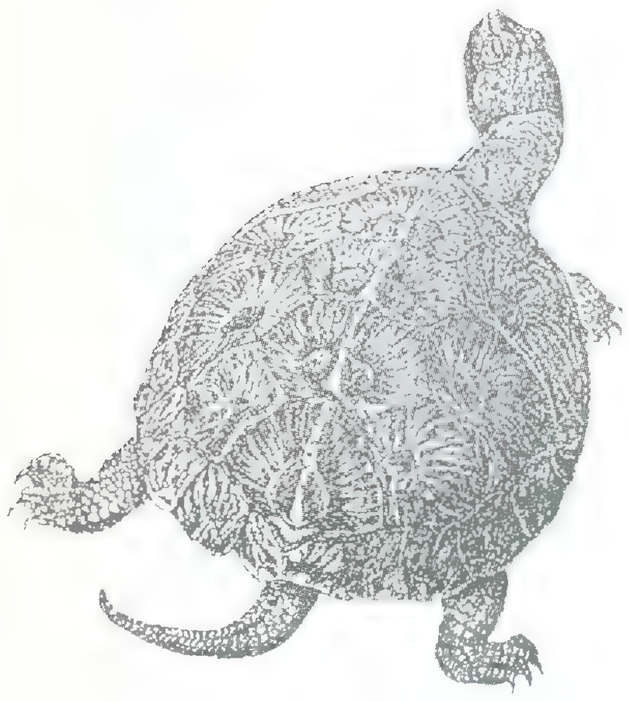
May Is American Wetlands Month

Special Programs at Shaw Arboretum

Thursday evenings, 6:30 to 8:30 p.m.

Explore Missouri's wetlands and its plants and animals. Discover the role of water in shaping our natural heritage and learn about modern wetlands conservation. Enrollment for each program is limited and available on a first-come, first-served basis. Call (314) 451-3512 for registration and information.

May 6 **Gardening with Wetland Plants**
May 13 **Family Workshop: What Lives in a Wetland?**
May 20 **Reptiles and Amphibians of Missouri Wetlands**
May 27 **Wetlands Restoration and Management**



There's a new "Wetlands Trail Guide" filled with fun learning activities to share with younger explorers at the Arboretum's restored wetlands area.

Ride the Wilderness Wagon to visit the wetlands area on weekends in May, weather permitting. And don't miss the Wetlands Art Exhibit by Gateway Middle School Students in the Joseph H. Bascom Manor House, open 10 a.m. to 4 p.m., closed Mondays.

KING SCHOENFELD

Summer Hours Begin May 31

9 a.m. to 8 p.m. Memorial Day – Labor Day

Enjoy the beauty of a tranquil stroll through the Garden on summer evenings. Beginning on Memorial Day, Monday May 31, the Garden will be open until 8 p.m. The trams will operate until 6:30 p.m.

Summer hours in the Garden Gate Shop: 9 a.m. to 6:30 p.m. Monday through Thursday and on Sunday; 9 a.m. to 7 p.m. on Friday and Saturday.

May & June Events

May 6 – July 9

Exhibit: "Flower Power"

9 a.m. to 5 p.m. daily, Monsanto Hall. More than 50 acrylic paintings by Robert Stolz feature flowers, fruits, and vegetables. Free with Garden admission or membership.

May 8 & 9 Saturday & Sunday

Miniature Rose Sale

9 a.m. to 5 p.m. daily, Monsanto Hall. Presented by the Rose Society of Greater St. Louis in conjunction with GardenExpo. Free with Garden admission or membership.

May 15 Saturday

Migratory Bird Discovery Day

10 a.m. to 4 p.m., Monsanto Hall. Learn about bird identification, do's and don'ts of backyard bird feeding, and where to look for birds. Activities for families and kids, sponsored by the St. Louis Chapter of the Audubon Society. For more information, call Sue Smith at (314) 256-7986. Free with Garden admission or membership.

May 15 Saturday

Demonstration: "Saikei"

10 a.m. to noon, Shoenberg Auditorium. The Japanese art of creating miniature landscapes, presented by noted teacher Pat Brodie. Co-sponsored by the Bonsai Society of Greater St. Louis. Pre-registration is required: $15 members, $20 non-members. Call (314) 577-9441.

May 15 Saturday

StoryTime

11 a.m., Garden Gate Shop. For children ages four to ten. Listen to a story or two, make a fun project to take home, and learn about the world of plants. Parents are welcome to attend, and children under four must be accompanied by an adult. Free, no reservations.

May 15 Saturday

Spring Wildflower Sale

9 a.m. to 4 p.m., Shaw Arboretum. See page 3.

May 15 & 16
Saturday & Sunday

Bonsai Society Show and Sale

9 a.m. to 5 p.m. daily, Orthwein Floral Display Hall. Presented by the Bonsai Society of Greater St. Louis. Free with Garden admission or membership.

May 15 & 16
Saturday & Sunday

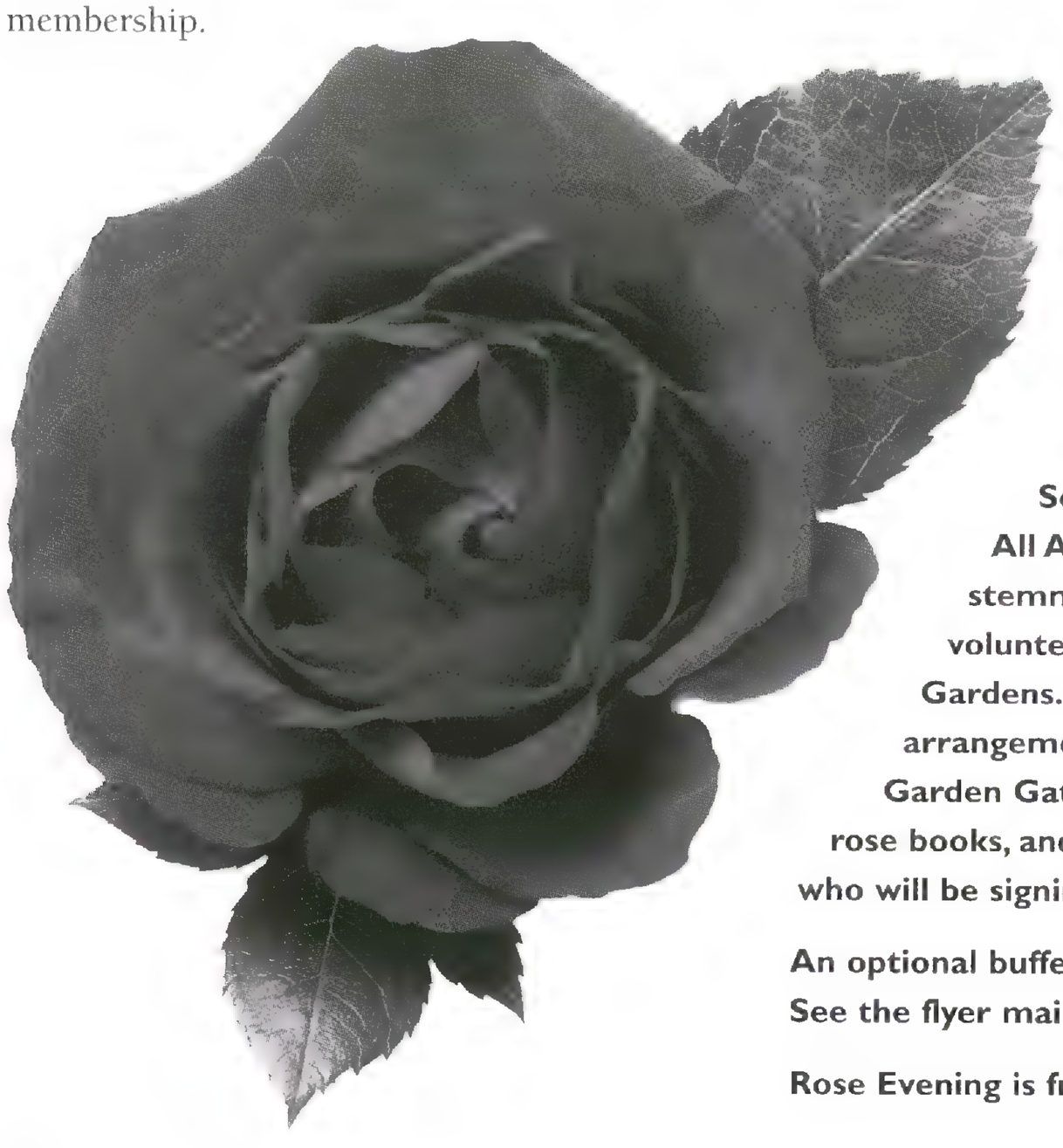
Dahlia Society Sale

9 a.m. to 5 p.m.daily, Beaumont Room. Presented by the Dahlia Society of Greater St. Louis. Free with Garden admission or membership.

May 22 & 23
Saturday & Sunday

St. Louis Horticultural Society Show and Sale

Saturday sale hours are 9:30 a.m. to 5 p.m. Saturday show hours are noon to 5 p.m. Sunday sale and show hours are 9 a.m. to 5 p.m. In the Orthwein Floral Display Hall both days. Free with Garden admission or membership.



Members' Day – May 28 Friday

Rose Evening

5:30 to 8:30 p.m. Our annual celebration of everyone's favorite flower includes live entertainment by the Rivertown Sound Barbershop Quartet, a cash bar, an advance look at the All America Rose Society Winners for the Year 2000, and a long stemmed rose to take home. Horticulture staff and Rose Society volunteers will be on hand in the Lehmann and Gladney Rose Gardens. Attendance drawings will be held for a beautiful arrangement of roses by Alex Waldbart, videos, and more. In the Garden Gate Shop, members receive an extra 5% discount on all roses, rose books, and rose gifts. Meet authors Peter Bernhardt and Gen Obata, who will be signing copies of their recent books from 5:30 to 7:30 p.m.

An optional buffet supper is available by advance reservation, $21 per person. See the flyer mailed recently to all members, or call (314) 577-9500.

Rose Evening is free, for members only, held rain or shine.

May & June Events

May 29 & 30
Saturday & Sunday

Rose Society Annual Show

Saturday – 12:30 to 5 p.m.
Sunday – 9 a.m. to 5 p.m.
In the Orthwein Floral Display Hall both days. Presented by the Rose Society of Greater St. Louis. Free with Garden admission or membership.

June 5 & 6
Saturday & Sunday

Chinese Culture Days

10 a.m. to 5 p.m. daily, Garden grounds. Our annual celebration of Chinese culture expands to two days this year. Featuring performances by the renowned Shanghai acrobatic troupe, traditional lion dances, folk fashions and folk dancing, musical performances, food, children's games, painting and calligraphy demonstrations, special tea ceremonies, and tours of the Grigg Nanjing Friendship Garden. In Cohen Amphitheater, visit an authentic Chinese village complete with merchants and craft masters typical of street life in China throughout the centuries. Free with Garden admission or membership.

June 6 Sunday

Iris Society Show

Noon to 6 p.m., Orthwein Floral Display Hall. Presented by the Greater St. Louis Iris Society. Free with Garden admission or membership.

June 7 – August 20

Exhibit: "Cacti & Succulents"

9 a.m. to 8 p.m. daily, Grigg Lobby. Beautiful color photographs by Steve Feiner, a member of the Henry Shaw Cactus Society, capture the dramatic beauty of cacti and succulents in large format cibachrome prints. Free with Garden admission or membership.

June 12 Saturday

"Peanutman: A Visit from George Washington Carver"

2 p.m., Shoenberg Auditorium. A play for all ages, presented by the St. Louis Black Repertory Theater. Carver, the great scientific pioneer, appears to a young boy named Henry and passes on a great gift, the thirst for knowledge. Free with Garden admission or membership.

June 19 Saturday

StoryTime

11 a.m., Garden Gate Shop. See May 15.

June 19 & 20
Saturday & Sunday

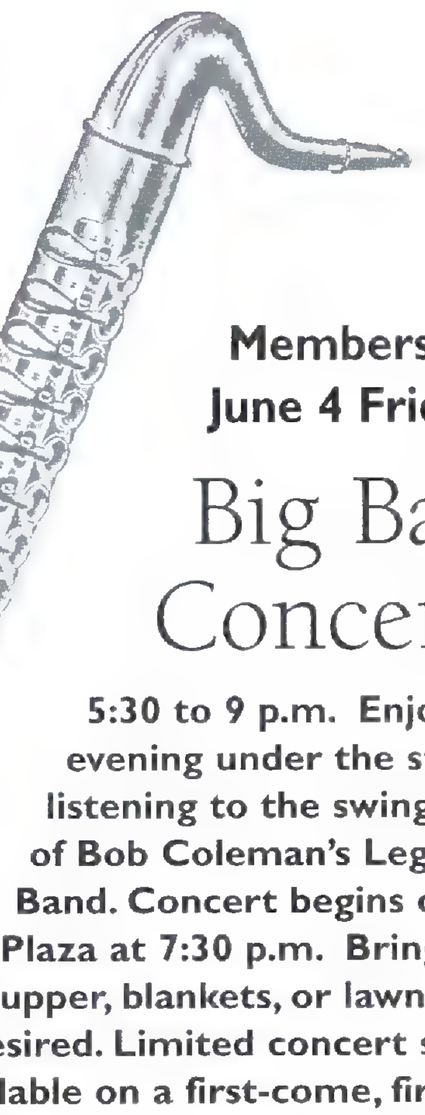
Lily Society Show

9 a.m. to 5 p.m. daily, Orthwein Floral Display Hall. Presented by the Mid-America Regional Lily Society (MARLS). Free with Garden admission or membership.

June 26 & 27 Saturday & Sunday

Daylily Society Show and Sale

Saturday show hours are noon to 5 p.m. and Sunday show hours are 9 a.m. to 5 p.m., in the Orthwein Floral Hall both days. Sale hours are 9 a.m. to 5 p.m., in the Beaumont Room both days. Presented by the West County Daylily Club.



Members' Day
June 4 Friday

Big Band Concert

5:30 to 9 p.m. Enjoy an evening under the stars listening to the swinging sounds of Bob Coleman's Legacy Big Band. Concert begins on Spoehrer Plaza at 7:30 p.m. Bring a picnic supper, blankets, or lawn chairs if desired. Limited concert seating is available on a first-come, first-served basis. Cash bar. Members receive an extra five percent discount in the Garden Gate Shop on all CDs, cassettes, and wind chimes. Special thanks to The Travel Center for their support of the evening. Free, for members only.

June 20 & 27 Sundays

"Nature Moves"

6 p.m., two consecutive Sundays. The Atrek Dance Company presents interpretive dance based on sculpture in the Garden. The performance moves from the Ridgway Center to various sites on the grounds. Free with Garden admission or membership.

Walking Tours led by Garden Guides – 1 p.m. daily.

Eco-Cart Demonstrations – Every Saturday from 11 a.m. to 3 p.m. in the Brookings Interpretive Center.

Garden Walker's Breakfasts – In cooperation with the American Heart Association, the grounds open every Wednesday and Saturday morning at 7 a.m. to encourage fitness walking. A heart-healthy breakfast is available for purchase in the Gardenview Restaurant, 7 a.m. to 10:30 a.m.

May & June Events

TRENT FOLTZ

June 13 Sunday

1999 St. Louis Garden Tour

10 a.m. to 4:30 p.m.

Back by popular demand! Garden members are invited to spend a summer day touring some of the loveliest private gardens in St. Louis. From elegant terrace landscapes to formal rose gardens to wooded yards filled with unusual plants, the tour includes large and small gardens designed by home owners and professionals. The day is certain to be a delight for you and your friends and will provide creative ideas for your own landscaping. Watch the mail for your special invitation, or call (314) 577-9500 for information.

Whitaker **Jazz** Festival **99**

Bring a blanket and a picnic and spend an evening under the stars with some of the finest jazz musicians in the Midwest.

Lawn seating **Cash bar**

Box suppers available for purchase from the Gardenview Restaurant – call 577-9528 to order.

No alcoholic beverages or glass containers are permitted on Garden grounds.

Tickets are not required for Garden members. Just show your membership card at the Ticket Counter. Non-members can pick up tickets two weeks in advance of each concert at the Garden Ticket Counter or at the University Center at Southern Illinois University at Edwardsville. Tickets will also be available at selected retail outlets. Listen to WSIE Jazz Radio 88.7 FM for announcements of ticket locations.

CLIFF WILLIS

Claude Johnson accompanied Marchel Ivery on Juneteenth Heritage Festival evening.

JUNE 2 **Kim Portnoy Big Band**
Contemporary and traditional big band music

JUNE 9 **Jeremy Davenport**
Jazz trumpeter and vocalist

JUNE 16 **Denise Thimes**
Jazz, rhythm and blues vocalist

JUNE 23 **Vargas Swing**
Swing band sensation

JUNE 30 **Allegro Jazz Ensemble**
Contemporary Latin jazz

JULY 7 **Johnnie Johnson**
Jazz and blues legend

The Whitaker Jazz Festival is made possible by the generosity of the Whitaker Foundation, which supports the arts in St. Louis to promote our common heritage while celebrating our diversity and encouraging the vitality of our community.

Members

Past Presidents of the Members' Board

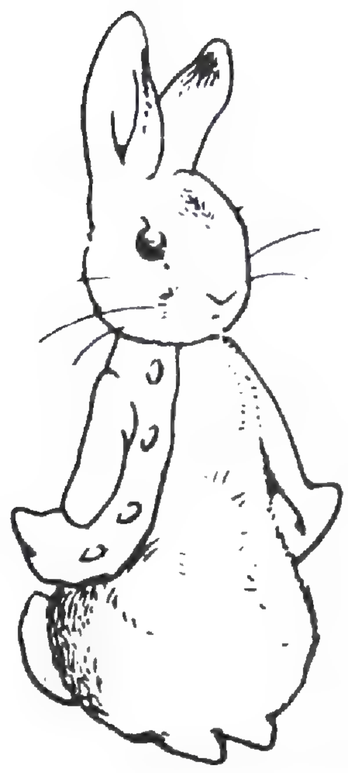
Jane Coultas Conrad

JANE CONRAD has worn many hats in her 30 years of service at the Garden. She became a member in 1968, joined the Members' Board in 1970, was elected secretary to the Board in 1972, and served as its president from 1974 until May of 1977. Following her presidency, the Garden hired her to manage Tower Grove House, and she worked there until she retired in 1985.

During Mrs. Conrad's term as president of the Board, the number of Garden members grew from 4,800 to about 9,000. With the opening of the English Woodland Garden and the Japanese Garden, it was an exciting time at the Garden. The Members' Board was very active, presenting events including flower show preview parties, members' trips, outdoor concerts by the St. Louis Symphony in Cohen Amphitheater, volunteers' teas, children's Christmas parties, an Arboretum Day, and the first Members' Day in 1975, a luncheon that served 450 people in the Museum Building. Two gala benefit parties were held, "An English Garden Party" with Lord Snowdon in 1974 and the "Chrysanthemum Ball" with Gloria Vanderbilt in 1976, and each welcomed more than 800 guests to the Garden.

A native of St. Louis, Mrs. Conrad has been active in several community organizations. In the 1940s she was secretary to Nobel Prize winners Drs. Carl and Gerti Cori at Washington University School of Medicine. Mrs. Conrad now makes her home in Florida for several months each year, but as an *ex officio* member of the Garden Members' Board, she still attends meetings often.

You may have seen the electric surreys carrying guests around the grounds, but few visitors know that two of the carts were gifts from Mrs. Conrad — just one visible sign of her love for the Garden.



Last Call – Friday, May 7

Mother's Day Luncheon and Fashion Show

English Garden Party

With Cindy Preszler, Channel 5 Weather

Featuring Spring Fashions by Dillard's

Seating begins at 11:45 a.m.

$45 members, $55 non-members.

Join Beatrix Potter and friends for a luncheon and fashion show sponsored by Dillard's, with thanks to St. Louis Homes & Lifestyles and Party Arts. Call (314) 577-9500 for reservations.

Give Dad a Double Header!

Father's Day Is June 20, 1999

Remember Dad on his special day with a double header this year. Between May 15 and June 20, you can purchase a Garden gift membership for Dad and receive one month of free car washes at Waterway Gas & Wash, good through July 31, 1999. Dad will also be entered in a drawing for a one-year Clean Car Club membership from Waterway, valued at $200, plus two Cardinals baseball tickets. For information, call (314) 577-5118, or visit any of the seven Waterway Gas & Wash locations.

Save the Date – October 6-9, 1999

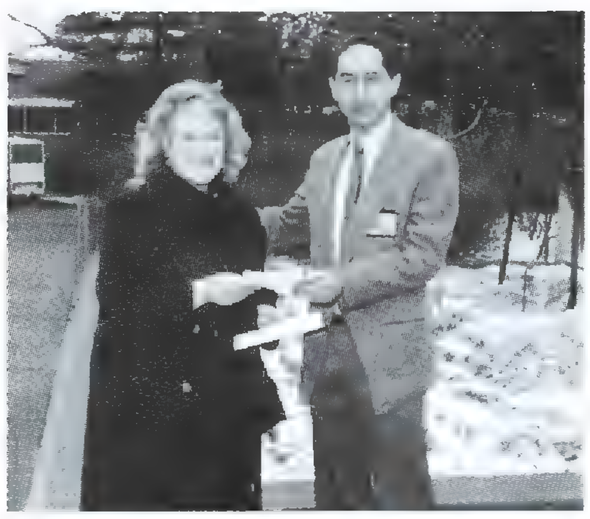
Members' Autumn Tour

Hudson River Valley

For information, please call the Membership Office at (314) 577-9500.

1998 Annual Report Is Available

If you would like a copy of the 1998 Missouri Botanical Garden Annual Report, they are available from the Ticket Counter at the Ridgway Center or the receptionist at the Shoenberg Administration Building. You may also request Annual Reports by calling the Development Office, (314) 577-5120.



TRENT FOLTZ

Garden Club Gift

The Federated Garden Clubs of Missouri, part of the National Council of State Garden Clubs, provides significant support to the Garden to fund the upkeep of planting beds at the Ridgway Center. Shown presenting a check to deputy director Jonathan Kleinbard is Kay Schaefer, director of the East Central District of the Federated Garden Clubs of Missouri.

Students see what the natural world is like and learn how to do their own research. This is what science is all about.

PHOTOS COURTESY OF THE EVERGREEN PROJECT OF ST. LOUIS

MBGnet — Learning on the World

Activities on the Garden Web site complement the education video series. Above: Exploring a tropical biome in Belize. Far right: Investigating a temperate rain forest in Washington State.

Use of the Garden's Web site tripled last year, recording an incredible 32.5 million hits, or some 2.7 million inquiries each month. During the school year, over half of the inquiries go to the education pages, MBGnet.

That's even more amazing when you realize that many of the individual "hits" come from classes of 20 or more kids.

MBGnet's success isn't hard to understand. Produced by the Evergreen Project of St. Louis in collaboration with the Garden's Education Division, MBGnet is colorful, easy to use, and packed with information.

Click on "Just for Kids" at the Garden home page, then choose "What's It Like Where You Live?" Designed for grades 4 and up, this is a "world learning community for classrooms and kids" where you can take a virtual tour of six different biomes. Visit a rain forest, temperate forest, tundra, taiga, grassland, or desert, and learn about what kinds of plants and animals live there. There are exciting projects for each biome, such as "What you can do to save the tropical rain forest" and "The Evergreen Dispatch," an environmental newspaper.

Or choose "Partners for Growing," designed for younger students, grades two to four. You will find "Investigations in Plant Science," colorful, fun pages of activities including an interactive storybook, a school gardening project, "Plant Munchers" about insects, and more.

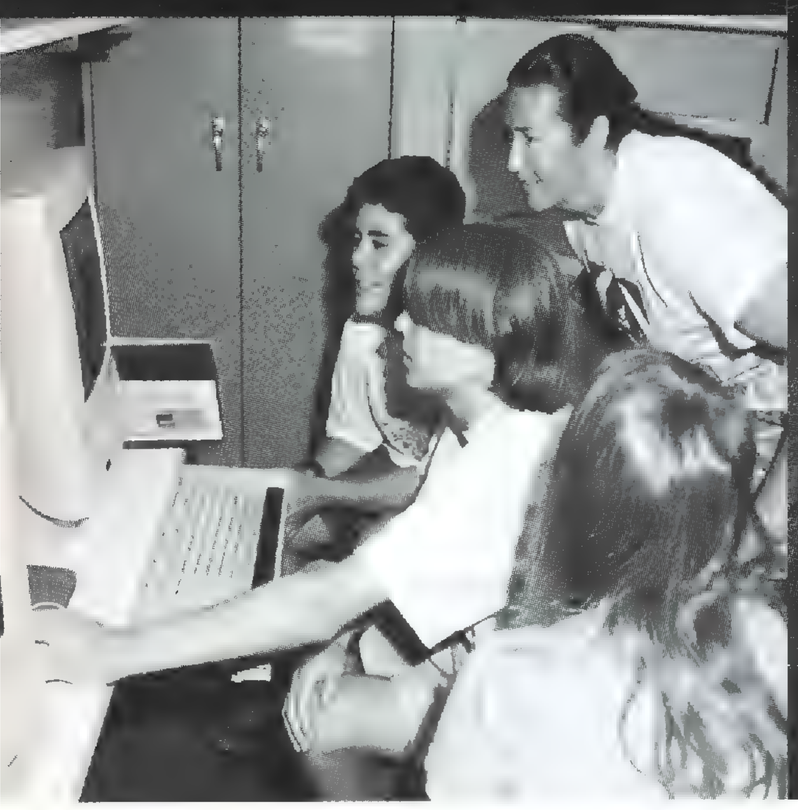
Click on "Cool Projects" to trade information with classes elsewhere in the world. A current "Project of the Month" was a report from second and third graders in Alaska, who gathered and analyzed data on temperature and daylight hours in the land of the Midnight Sun.

Teachers will find a complete guide to "Web Work Shops," 12 online courses that help teachers integrate computers into classroom lessons. This opportunity is a collaboration among the Garden, The Evergreen Project, the Cooperating School Districts of St. Louis, and Webster University. College credit is available.

MBGnet is available on CD-ROM for schools that do not have Internet access. The Web site complements the Garden's

eft: Exploring the prairie with MBG staffer ill Davit. Right: Nunamuit kids in Alaska ppear in the "Tundra" video.

elow: Learning to use the Internet in the ndersen Computer Lab at the Garden's Lee ducation Center.



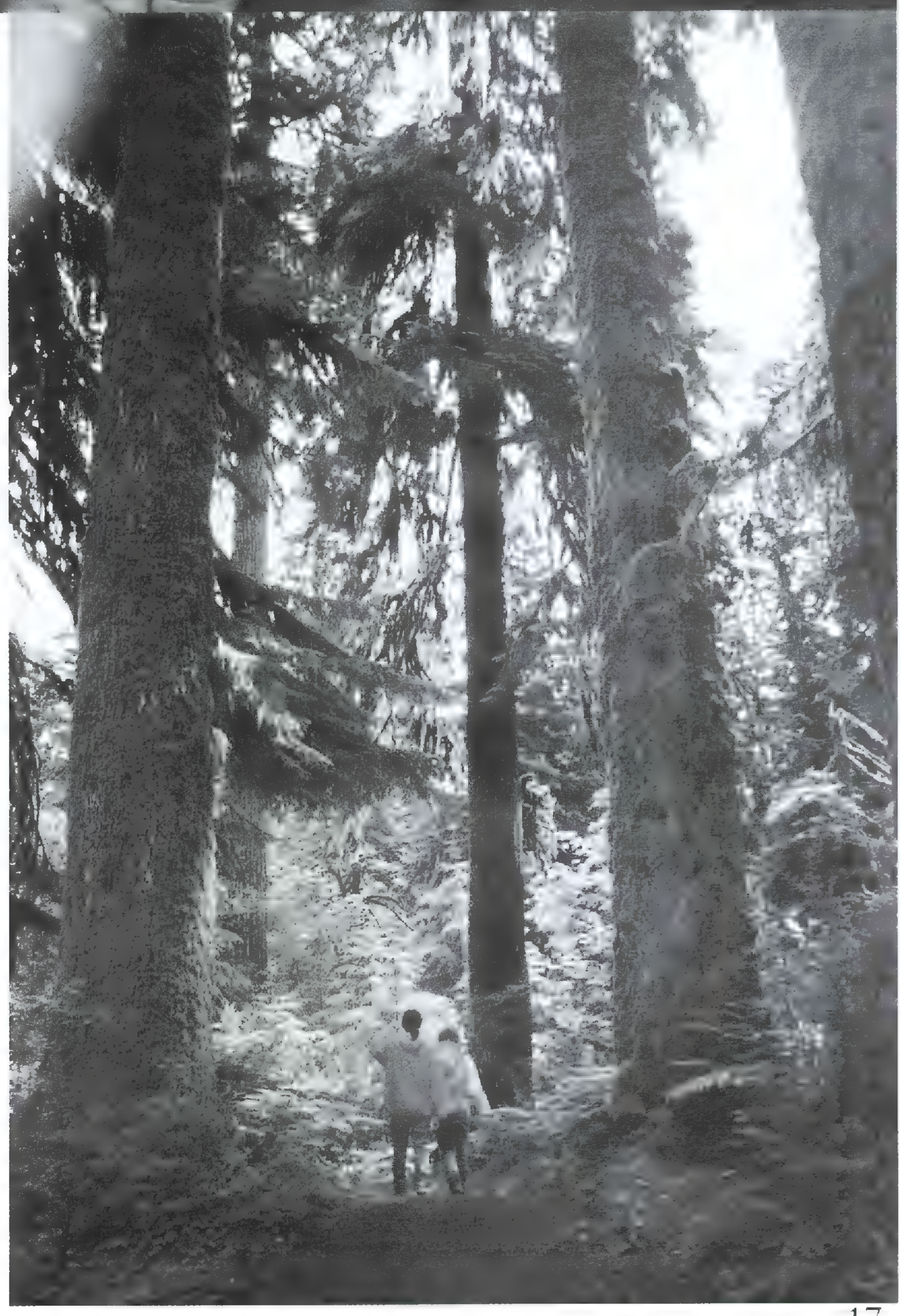
Wide Web

series of educational videos, currently in use in 20,000 schools nationwide. Produced by the Evergreen Project, the videos feature students and teachers on location around the world as they investigate underwater coral reefs, hike through frozen tundra, float down the Mississippi, or fly over vast forests in a helicopter. The videos also feature students who live in the places they visit, including Belize, Alaska, and the Florida Everglades, and include reports from schools in Siberia, Finland, and Australia.

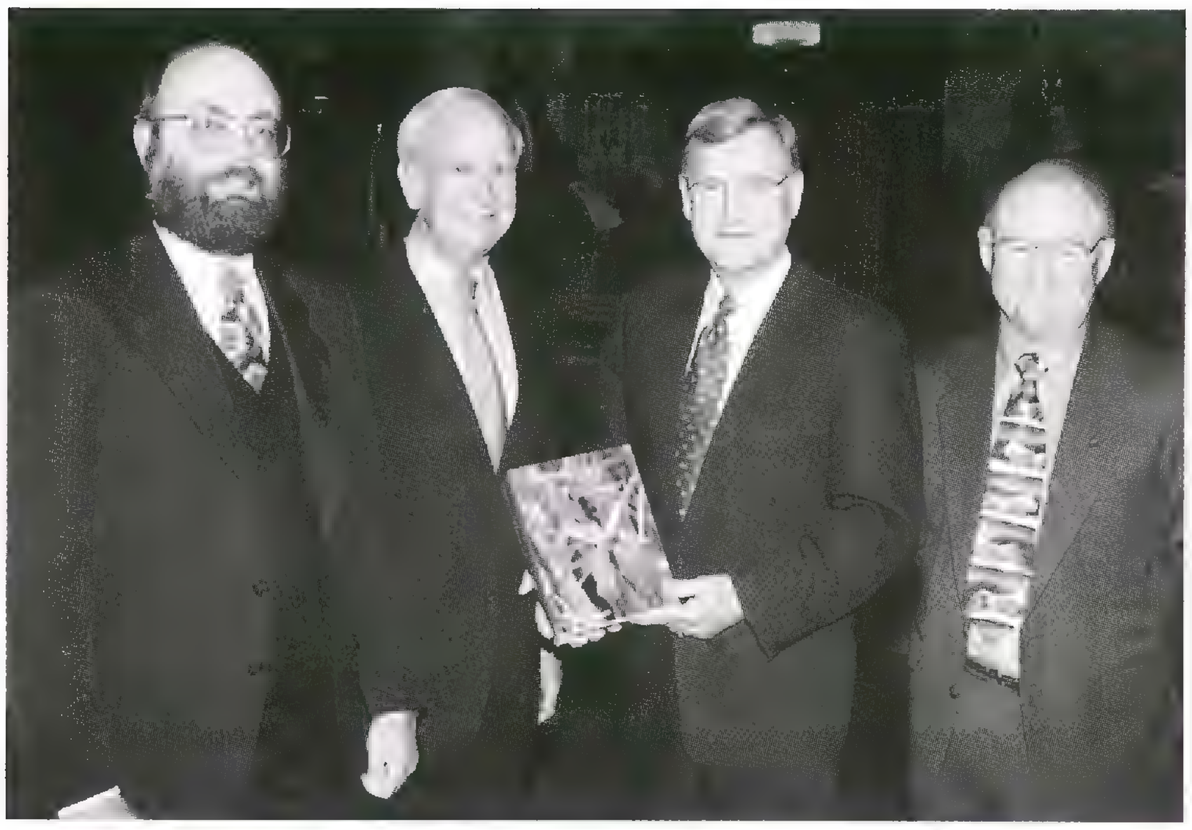
"The Web site and the videos are a very successful way to get students to learn science," said Larry DeBuhr, Ph.D., the Garden's director of education. "They see what the natural world is like and learn how to investigate it, how to do their own research. That is really what science is all about."

For more information, please visit the Garden Web site at

www.mobot.org.



Research



CLIFF WHITE, MISSOURI DEPARTMENT OF CONSERVATION

Flora of Missouri Presented to Governor

On March 23, a delegation from the Missouri Botanical Garden and the Missouri Department of Conservation (MDC) visited the state capitol in Jefferson City to present Governor Carnahan with a signed copy of *Steyermark's Flora of Missouri*. The eagerly awaited first volume of the revised edition was recently published jointly by the Garden and the Department of Conservation. From left: Dr. George Yatskievych, Garden curator, MDC botanist, and author of the book; Dr. Peter H. Raven, director of the Garden; Governor Mel Carnahan; Jerry Conley, MDC director. The new *Flora of Missouri* is available at all MDC outlets and at the Garden Gate Shop.

A NEW DISCOVERY

Rain Forests May Help Slow Global Warming

SCIENTISTS working in the Amazon and Central America have been stunned to discover that undisturbed rain forests there are apparently acting as massive sponges absorbing carbon dioxide and other greenhouse gases from the atmosphere.

This exciting discovery was published recently in the journal *Science*. Two of the authors are Rodolfo Vasquez, a Garden curator heading the Flora of Peru project, and Oliver Phillips, an MBG research associate who earned his Ph.D. from Washington University in 1993 while studying at the Garden. The paper uses results from forestry plots in Amazonia, many of which were established by Garden scientists, including the late Alwyn H. Gentry.

Since the Industrial Revolution, carbon dioxide (CO_2) in the Earth's atmosphere has increased by a third and is still rising. Scientists have long been puzzled because levels of CO_2 should be rising even faster.

Compiling data on 100,000 trees throughout South and Central America over 30 years, researchers may have solved the mystery of the "missing" CO_2. They discovered that in most of their study plots, the forests have become more massive.

"Our results suggest that over the past three decades, the living trees in each acre of rain forest have gained over 17 metric tons," said Phillips. "Each acre would have to absorb an additional 20 tons of carbon dioxide to increase that much."

In the Amazon Basin alone, the scientists estimate that intact rain forests could be absorbing over a billion tons of carbon dioxide each year. Ironically, the team believes the forests are getting bigger because of the increased levels of CO_2. When the greenhouse gas is more abundant, plants grow faster.

While this is welcome news for the environment, the forests' capacity to absorb carbon dioxide is limited. The scientists emphasize that only undisturbed forests can absorb extra CO_2, and 40 million acres of rain forest are being destroyed each year.

Curator in Paraguay

Elsa Zardini, Ph.D.

Dr. Elsa Zardini, a native of Argentina, came to the Garden in 1984 to work with Peter Raven on his studies of the Onagraceae, or evening primrose family. In 1987 she moved to Paraguay to begin botanical field work. At that time, the plants of Paraguay were the least known of any country in Latin America.

In 1987, Paraguay had a single herbarium with no recent collections. Since then, two more herbaria have been added. Zardini and her Paraguayan colleagues have increased the number of specimens in local herbaria from15,000 to more than 100,000, and their work helped to establish the Ybytyruzu National Park.

As with Garden research activities in many countries, the emphasis is on strengthening local botanical institutions. These efforts have helped to bring the Garden's colleagues in Paraguay into the international botanical community. Paraguayan botanists are now participating in an important new project to produce a computerized checklist of the plants of the Southern Cone of South America, which includes Argentina, Chile, Uruguay, Paraguay, and southern Brazil.

Zardini attended high school in the United States and Argentina and earned her Ph.D. from the Universidad Nacional de La Plata, Argentina. Following graduation she studied at Harvard on a Guggenheim Fellowship.

Elsa Zardini collecting plants in Paraguay.

Trustees

Trustee Profile

Thomas A. Woolsey, M.D.

Dr. Thomas A. Woolsey, director of the James L. O'Leary Division of Experimental Neurology and Neurological Surgery at Washington University School of Medicine, was elected president of the 144-year-old Academy of Science of St. Louis in December, 1998. Under the terms of Henry Shaw's Will, Dr. Woolsey became a Trustee of the Garden *ex officio*, by virtue of his office. As president of the Academy of Science, he succeeds George E. Thoma, M.D., president emeritus of St. Louis University School of Medicine. The Missouri Botanical Garden Board of Trustees has elected Dr. Thoma an Emeritus Trustee of the Garden.

The Academy of Science serves as a community resource by acting as a forum for collaboration of science-related organizations, by promoting exchanges among scientists, teachers, students and the public, and by supporting science education. Its Junior Academy links students in grades 7 through 12 with local scientists through the Emerson computer network. Speakers for Science is a group of more than 600 volunteer scientists, medical specialists, engineers, and science educators who speak to schools, civic groups, youth organizations, and the media. The Academy also sponsors the annual Symposium on Scientific Literacy, a task force dedicated to improvement of science education.

As an originator of the Academy's Speaker's for Science program, Dr. Woolsey has devoted countless hours to visiting schools, where he speaks to students about his work. He was elected to the Academy's Board of Trustees in 1993.

Dr. Woolsey is the George H. and Ethel R. Bishop Scholar in Neuroscience at Washington University School of Medicine. He is the winner of many professional honors and awards and the author of numerous scientific papers and publications concerning the brain. Dr. Woolsey came to St. Louis in 1970 as an intern in surgery at Barnes Hospital. He is a 1965 graduate of the University of Wisconsin and earned his M.D. in 1969 at The Johns Hopkins University School of Medicine.

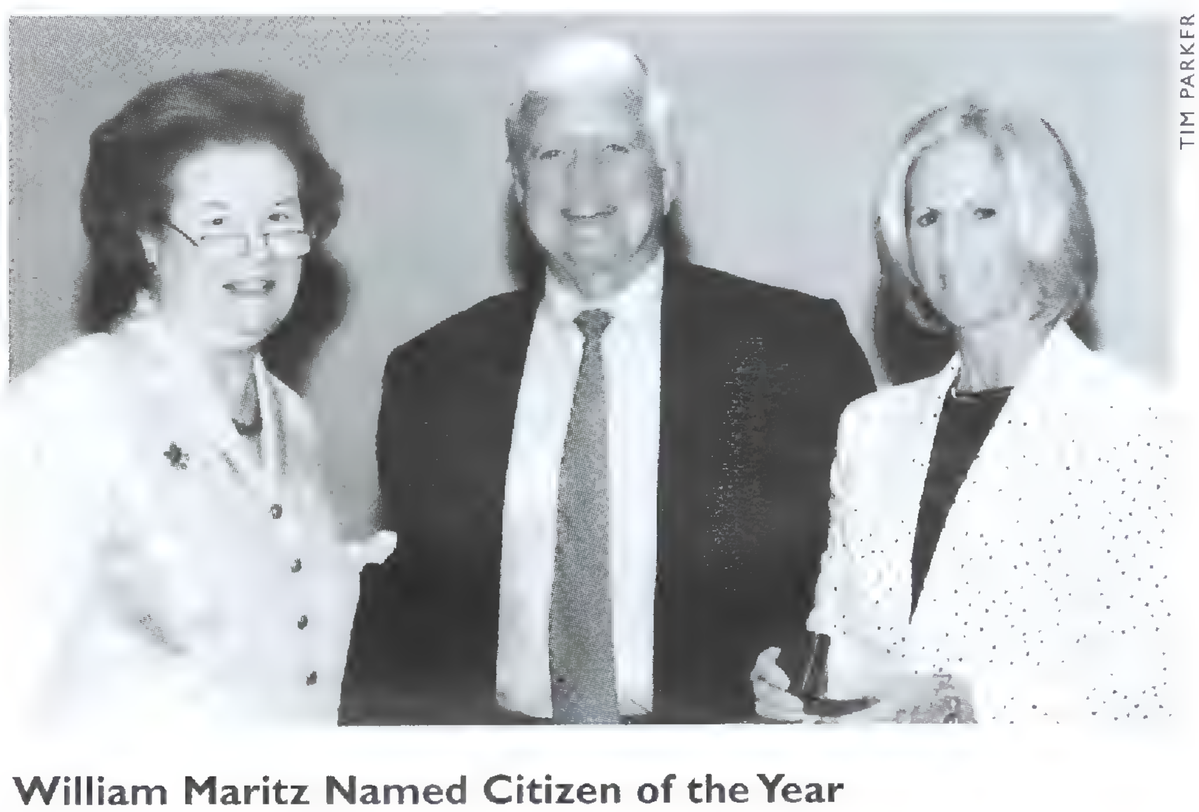
Peter Raven said, "We are delighted to have Dr. Woolsey join the Board of Trustees. Henry Shaw, the Garden's founder, showed wonderful foresight by providing for eminent scientists to serve on the Garden's Board. Dr. Woolsey's commitment to strengthening science education will be an important asset to our education programs."

Raven Receives AAM Distinguished Service Award

THE American Association of Museums (AAM) presented its 1999 Award for Distinguished Service to Peter H. Raven in April. Dr. Raven was honored for his dedication and commitment to museums, exemplified by his service as director of the Missouri Botanical Garden.

Over the past 27 years, under Dr. Raven's leadership, the Garden has become an institution recognized around the world for excellence in education, research, and community service. In making the award, the AAM cited the Garden's remarkable growth since 1971. Visitation has increased from 150,000 to 750,000 annually, and membership has grown from 4,000 to 34,500. Other achievements include creation of the Japanese Garden, renovation of the Climatron®, and construction of the Shoenberg Temperate House, the William T. Kemper Center for Home Gardening, and The Monsanto Center.

Founded in 1906, AAM is the national association representing the museum community. AAM accredits museums, provides education and training for museum professionals, operates international programs, and advocates advancement of museums. Its has more than 16,400 members.



TIM PARKER

William Maritz Named Citizen of the Year

In a ceremony held at the Garden on April 6, Garden Trustee William E. Maritz was honored as the St. Louis Citizen of the Year for 1998. The community service award, presented by the *St. Louis Post-Dispatch*, recognizes lifetime achievement. Maritz is the 46th recipient of the award and the most recent in a succession of Garden Trustees to receive it, including Blanche M. Touhill, the 1997 recipient, who presented the award to Maritz. Shown at the awards ceremony are Dr. Touhill (left) with William Maritz and his wife, Jacqueline.

TRIBUTES
NOV – DEC 1998

IN HONOR OF

Mrs. Charles Baron
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Mother's Day and Father's Day are coming up — Find perfect gifts at the Garden!

PHOTOGRAPHY BY TRENT FOLTZ

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MBG NET

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TRIBUTES

Honoring family and friends.

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Whitaker jazz festival 99

See page 14.

Pictured: Marchel Ivery playing at the 1997 Whitaker Jazz Festival on Juneteenth Heritage Festival evening.

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Missouri Botanical Garden

JULY / AUGUST 1999

VOLUME LXXXVII
NUMBER FOUR

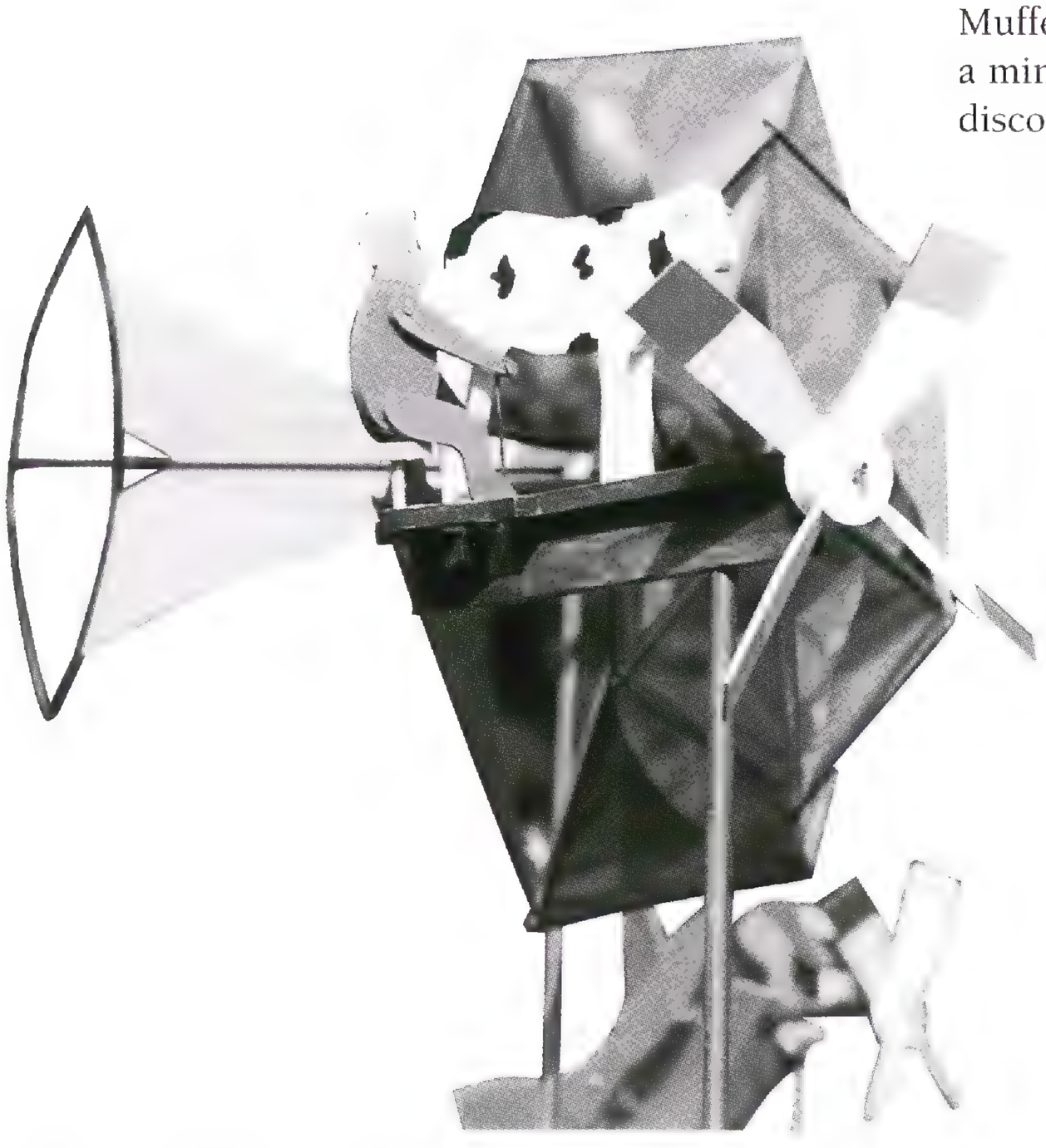
PHOTOGRAPHY BY TIM PARKER

KIDS *in Bloom!*

The giant bedbugs won't bite, but don't fall asleep in their flower "bed!"

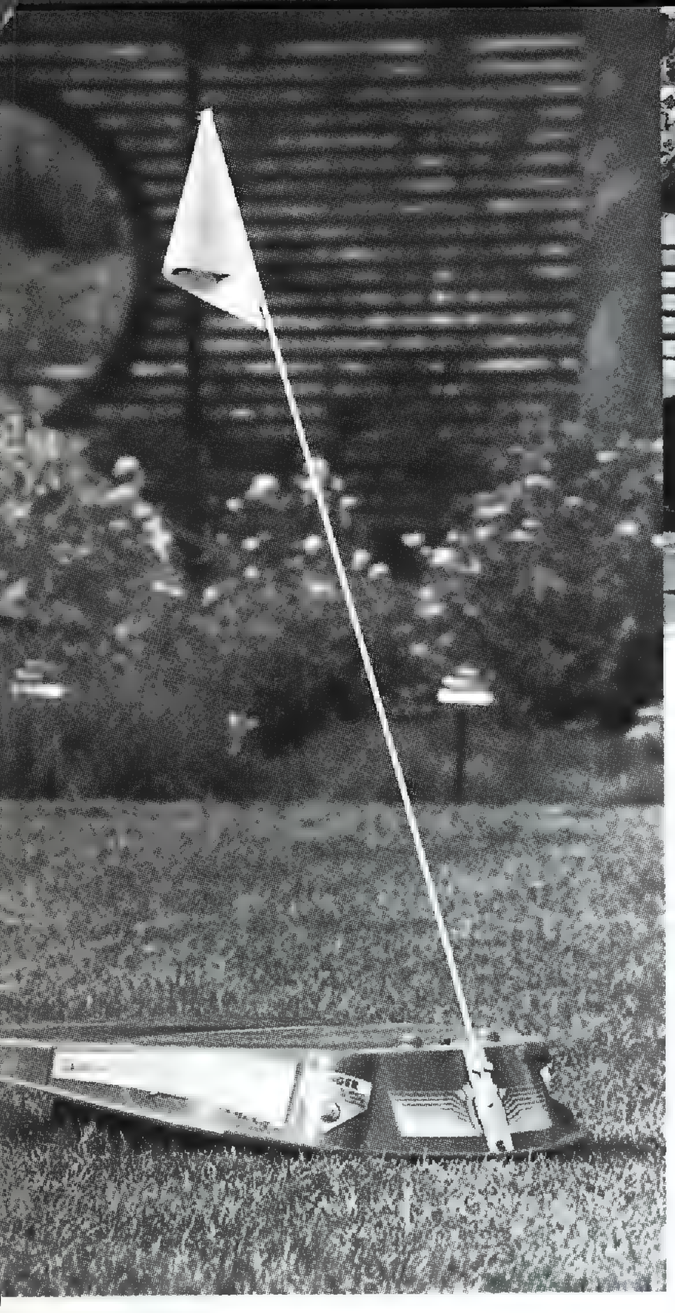
This summer you can catch a train through the Wild West, meet Little Miss Muffet's giant spider, explore a miniature maze, and discover a topiary giraffe, all in the Spoehrer Children's Garden at the Kemper Center for Home Gardening. July is "Kids in Bloom" Month, and these are just a few of the special new attractions.

Kids of all ages will delight in the G-scale model train from Germany, which circles around the pond in the Children's Garden. The enchanting outdoor track is complete with western style buildings, bridges, a tunnel, a waterfall, and miniature plants.



Above: The model train in the Children's Garden operates from 9 a.m. to 3 p.m. daily, with occasional brief pauses while the engine cools off. The outdoor train layout was constructed and installed with the assistance of volunteers from the local Gateway Chapter of the Outdoor Railway Association: John Brophy, Mary Lynn Brophy, Jim Agnew, Tom Eaton, Diana Eaton, Andy Clark, Skip MacEwen, Dave Miller, and Al Howe.

Left: Colorful whirligigs in the Children's Garden were made by volunteers John Altman and Bernard Altman.



Don't miss the solar powered lawnmower in operation on the central lawn at the Kemper Center. Displays nearby have information about how to use this environmentally friendly technology in your backyard.

A solar panel brings the frog fountain to life in the Children's Garden.

KIDS IN BLOOM

Just for Fun

Saturdays in July at the William T. Kemper Center for Home Gardening

Celebrate Kids in Bloom Month with hands-on activities and make something fun to take home. Drop in any time between 10 a.m. and 2 p.m. Activities are free with Garden admission or membership. Advance registration is not required.

JULY 3 **Red, White & Blue**

Celebrate 4th of July by potting up a red, white, or blue petunia.

JULY 10 **What's the Buzz?**

Learn all about honeybees, Missouri's State Insect. Meet some beekeepers and try a taste of real comb honey.

JULY 17 **Dried Flower Creations**

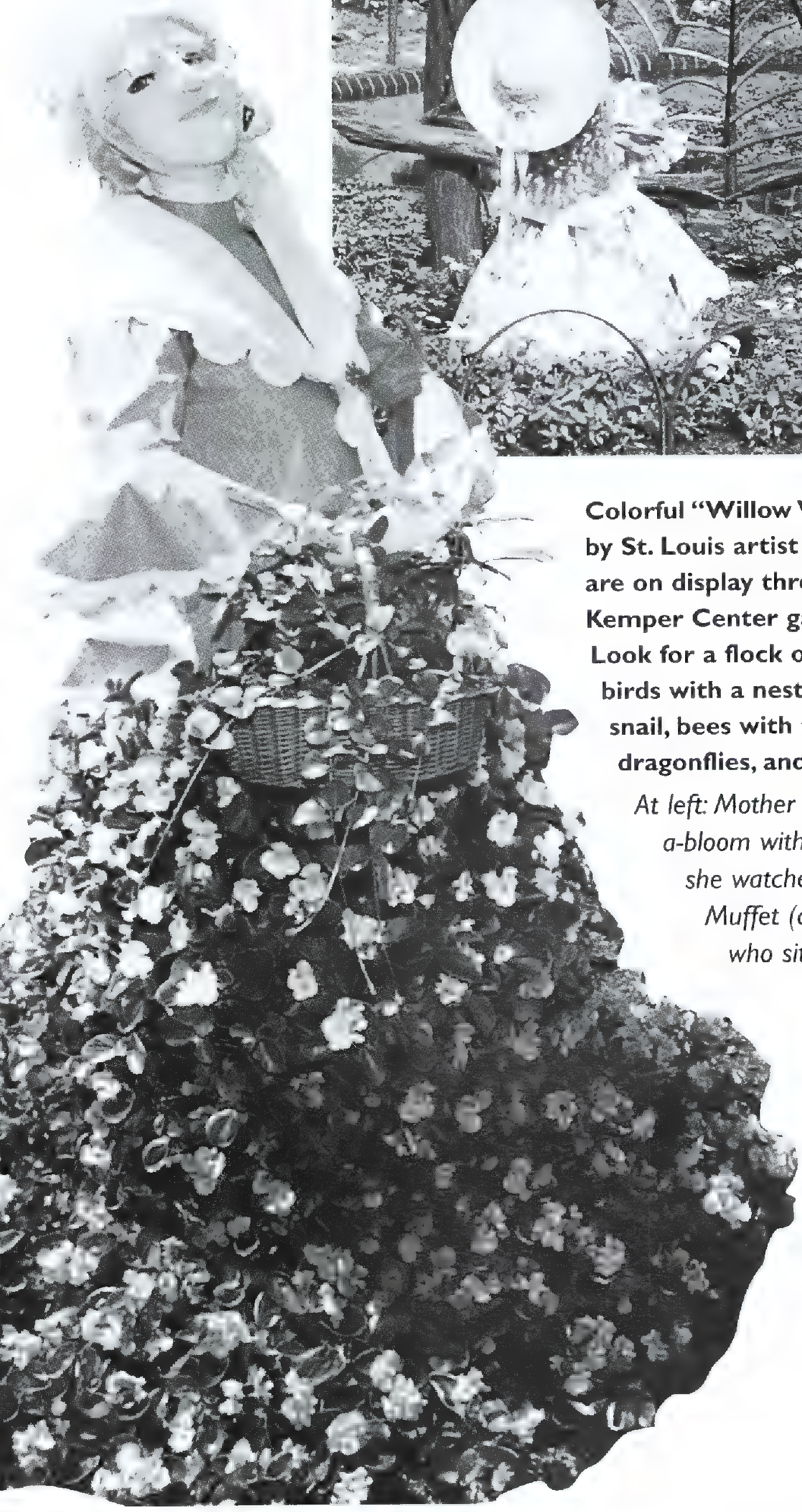
Make a beautiful ornament or nature mask with dried plant materials.

JULY 24 **Flutterbys**

Make a paper butterfly kite you can fly.

JULY 31 **Seed Necklaces**

Create a seed necklace you can sprout at home.



Colorful "Willow Works" sculptures by St. Louis artist Kathlene Weltzen are on display throughout the Kemper Center gardens this summer. Look for a flock of whimsical purple birds with a nest full of eggs, a giant snail, bees with their hive, dragonflies, and many more.

At left: Mother Goose's dress is a-bloom with colorful flowers as she watches over Little Miss Muffet (above) and the spider who sits down beside her.

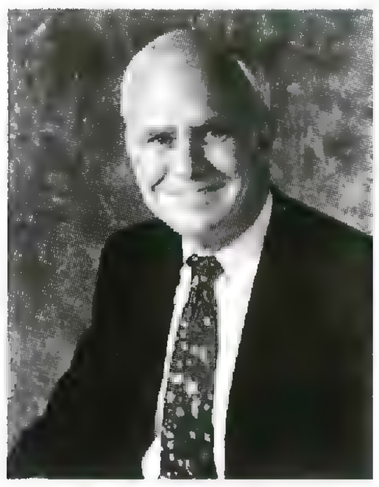
Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

Today the earth is facing an unprecedented challenge. Incredible as it may seem, we are killing our planet in the name of progress. Human beings are consuming the earth's resources so rapidly that one in five of the species alive now may face extinction within the next 25 years, and two-thirds may have met the same fate by the end of the next century.

We depend on plants for food, for medicines, for the very air we breathe, for watershed and topsoil protection, and in countless other ways. Plants hold the keys for prosperity, health, and sustainability in the future. Yet, of the estimated 300,000 species of flowering plants in the world, only about one in a hundred has been evaluated in any detail for its potential uses.

In order to make possible a better world for the future, we must learn to understand and value biological diversity — the sum of all living things on earth and all of the interactions among them. To help meet this challenge, the Missouri Botanical Garden botanists are second to none in contributing to the understanding of the world's plants and making knowledge about them widely available.



As we prepare to welcome scientists from around the world to the XVI International Botanical Congress, which will meet in St. Louis August 1-7, 1999, it is clear that nothing less than a fundamental change in humankind's sensitivity to our surroundings will make the world sustainable in the 21st century. We must prepare a world in which all people can come together to manage our global ecosystem for common benefit to prepare a sustainable, healthy, and prosperous world in which future generations can survive and thrive.

— Peter H. Raven, Director

Raven Co-Organizes Study Week at Pontifical Academy of Sciences

Peter H. Raven, shown with Pope John Paul II, was co-organizer of a Study Week on "Science for Survival and Sustainable Development" at the Vatican in March, 1999. The Pontifical Academy of Sciences, of which Dr. Raven is a member, sponsored the meeting. It gathered 35 world famous experts from various countries and disciplines to consider the issues and challenges of global sustainability. Discussions included the moral, ethical, and spiritual dimensions of proposed scientific initiatives and their implementation at the level of public policy.

Mailing Address:
Missouri Botanical Garden
Post Office Box 299
St. Louis, Missouri 63166-0299
(314) 577-5100

Visit the Garden Web site: www.mobot.org

Garden Hours
9 a.m. to 5 p.m. every day except Christmas; 9 a.m. to 8 p.m. Memorial Day through Labor Day. Grounds open 7 a.m. Wed. & Sat.

Shaw Arboretum: (314) 451-3512.

24-Hour Information: GardenLine – 577-9400
Or call 1-800-642-8842.

24-Hour Gardening Tips: HortLine – (314) 776-5522
Request a brochure from the Kemper Center for Home Gardening at (314) 577-9440, or send a stamped, self-addressed envelope to HortLine at the address below. Or see the Garden Web site, www.mobot.org.

Employment/ Volunteer Hotline: (314) 577-9401
Or see www.mobot.org.

Horticulture Answer Service: (314) 577-5143
9:00 a.m. to noon, Mon. – Fri.

Master Composter Hotline: (314) 577-9555
9:00 a.m. to noon, Mon. – Fri.

On the Cover
The Milles sculpture garden in the water lily pools facing the Climatron. – Photo by Jack Jennings

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, call (314) 577-5118.

Postmaster: Please send address changes to: Bulletin, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Volunteers

PHOTOGRAPHY BY TIM PARKER

Thirty Years *Pictured with Peter Raven: Joyce Driemeyer, left, and Virginia Appel. Not pictured: Mary Clair Wenger.*

Twenty Years *Pictured with Peter Raven, from left: Nancy Thompson, Audrey Swinford, and Marion Dorffi. Not pictured: Adam Donges.*

Ten Years *From left: Arleen Pallozola, Claire DePalma, Paul Gentle, Mary Bush, Karen Slattery, Jim Ferguson, Doris Chartrand, Peter Raven, Marie Falvey, Bonnie Dewes, Pat Falvey, Donald Dill, and John Skinner, M.D. Not pictured: Shirley Bauer, Patricia Doss, Jane Kahn, Virginia Laschober, Mary Jane Randolph, and Kenneth Slocum.*

Celebrating Service Anniversaries

For Today and the Future

ON April 22, 1999, Garden volunteers celebrating service anniversaries were honored with a luncheon at Spink Pavilion. Expressing appreciation on behalf of the entire staff, Peter Raven said, "You are all prime examples of the dedication and vision demonstrated by Garden volunteers. You not only have ideas, you pitch right in and do the work to accomplish the job. You take responsibility for improving the quality of life in your community. We thank each of you for what you contribute to the Garden today and for the future."

TIM PARKER

New Garden Guides Graduate

A NEW CLASS OF GARDEN GUIDES completed the two-year training course to become volunteer docents on April 13, 1999. The Garden Guides have been leading educational tours for children and adults since 1968. Congratulations to our new Guides!

Pictured standing, from left: Pat Adams, Susan Nuckols, Pat Ackerman, Susan Crocker, Bill Schaffner, Norbert Wasileski, Richard Sokol. Seated, from left: Karen Kowert, Pearline Phillips, Donna Moeller, Joanne Monti.

Gift Planning

Heritage Society Profile

Jean and Roger Volk – Sharing a Love of the Garden

"WHEN we visit the Garden, we always stop and help people who don't know their way around," said Roger Volk. "We love the Garden and have fun showing it off! We've visited a lot of gardens around the country with our free reciprical admission, and none of them can compare to ours here in St. Louis."

Jean and Roger Volk have been members of the Garden for 25 years and take great delight in all the new features that have been added over the years. As Director's Associate members, they visit the Garden weekly and enjoy many of the special events. They are also members of the Heritage Society, having made a bequest to the Garden in their wills. "It means a lot to us to support organizations where we are personally involved," said Roger.

The Volks, who have been married 33 years, are avid and enthusiastic gardeners. About the time they first joined the Garden, they built a home on four secluded acres and began to develop the garden of their dreams. Over the years, regular visits to the Garden have been a source of inspiration and information, particularly at the Kemper Center for Home Gardening.

"When we visit, we see new plants and combinations we want to try. And sometimes we see plantings we don't like," said Jean. "If a planting doesn't work, we take it out and try again!"

Today, Jean and Roger's home landscape is a showplace of lush lawns and curved beds of hostas, rhododendrons, azaleas, and many other shade loving plants beneath mature trees.

The Heritage Society

By making a planned gift to the Garden, you will become a member of the Heritage Society and receive special benefits, including invitations to several special events throughout the year and free assistance in meeting your financial and philanthropic goals. If you would like more information on the Heritage Society, please call Judi Schraer, planned giving officer, (314) 577-5120.

SAVE the Date!
FREE Financial Planning Seminar

Socially Responsible Investing

Wednesday, October 6, 1999

Socially responsible investing offers you the opportunity to meet your financial goals in a manner consistent with your ethical and social concerns. Co-sponsored by Missouri Botanical Garden and Salomon Smith Barney. For information please call Judi Schraer at 577-5120.

Endowments

June Hutson – Aurelia Schlapp Curator of Perennial Plants

THE NAMED CURATORSHIP held by June Hutson is the first of its kind in the Horticulture Divison. The named position was established in 1995 through the support of a bequest from the late Mrs. George Schlapp.

June Hutson is field supervisor of the demonstration gardens at the Kemper Center for Home Gardening. A 23-year veteran of the Horticulture staff, she began working at the Garden as a volunteer in 1973 before earning her degree in horticulture from Meramec Community College.

"I think I've worked in every area at the Garden except the Japanese garden," June said. She is an expert on conifers and rock gardens and is responsible for plant selection at the Kemper Center gardens. "It's great fun to encourage people to try new plants and ideas," she explains. "A great garden requires creativity plus technical knowledge."

June certainly is an authority on both. She is one of the contributors to *Ask the Experts*, a new book from Light Bulb Publishing Co., New York, and she is one of the garden designers featured in *Midwest Landscape Designers* by Susan McClure. June is a popular teacher and consultant to many individuals and gardening societies. Recently she has lectured at Powell Gardens in Kansas City, the Landscape School at Purdue University, and the Landscape Maintenance School at the University of Illinois in Collinsville.

For information on endowing a named curatorship at the Garden, please call Patricia Arnold, director of development, at 577-5120.

Shaw Arboretum

Groundbreaking for Dana Brown Foundation Overnight Educational Center

A CEREMONY on June 2, 1999, celebrated the official groundbreaking for the new Dana Brown Foundation Overnight Educational Center at Shaw Arboretum. The new facility is made possible by a $1 million grant from the Dana Brown Foundation.

The facility will include the existing Adlyne Freund Education Center, supported by Whitney and the late Jane Harris and the Norman J. Stupp Foundation, Commerce Bank, Trustee. It will also include four sleeping cabins, a shower building, and an assembly hall, all restored 19th century buildings from the region. One of the cabins has been donated in memory of Edgar Denison, author of *Missouri Wildflowers*, by Peg and Blanton Whitmire.

Speaking at the ceremony, Dr. George Thoma, a Garden Trustee and chairman of the Arboretum Committee, said, "The Arboretum is dedicated to environmental education and ecological restoration. It expands the Garden's outreach in science education by using its 2,400 acres as a living laboratory, offering classes and workshops for adults and children. This new facility will add a wonderful new dimension to our successful program."

MARY BUTKUS

Breaking ground for the new center at Shaw Arboretum (from left): Peter Raven, Peg Whitmire, Edward Higgins, chairman of the Dana Brown Charitable Trust, Blanton Whitmire, and John Behrer, director of Shaw Arboretum. The ceremony included fifth graders from Zitzman Elementary School in Pacific and sixth graders from Wydown Middle School in Clayton, who demonstrated aquatic ecology studies.

New Gift Opportunities

Funding is still being sought to support construction and upkeep of three cabins at the overnight education center, as well as other features at Shaw Arboretum. For more information on naming and giving opportunities, please call Patricia Arnold, director of development, at (314) 577-5120.

The Stupp Teacher Resource Center

ONE of the most difficult challenges for busy teachers is gathering all the equipment they need to fire their students' imaginations. The Stupp Teacher Resource Center at the Garden fills the gap by providing kits of science education materials on loan. From water testing apparatus to magnifying lenses, from lesson plans to videotapes, the Center can fill the bill.

In addition to the wide array of Action Packs, Suitcase Science Kits, and other materials available on loan, the Center has an extensive non-circulating collection of books, periodicals, curriculum and activity guides, and file materials. Many teachers take advantage of these resources to enrich their classroom presentations and help students prepare for science fair projects.

The Stupp Teacher Resource Center has been helping teachers since 1982. Located in the Education Division offices at the Ridgway Center, the Center is supported by the Norman J. Stupp Foundation, Commerce Bank, Trustee, which recently approved a major increase in funding for the Center.

"We are very grateful to the Stupp Foundation for making this service possible," said Dr. Larry DeBuhr, director of education. "Teachers can find tools and information in one location, and discover new options and ideas."

The Center is open Monday through Friday, 9 a.m. to 5 p.m., with special hours on first and third Saturdays, September through May, 9 a.m. to noon. For admission, inquire at the Ridgway Center ticket counter. For more information or an appointment, please call Amy Haake, (314) 577-9501.

At left: Shown with an activity kit in the Stupp Teacher Resource Center: Kathy Zundel, charitable communications representative for Commerce Bank (left), Larry DeBuhr, director of education, and Amy Haake, manager of the Center.

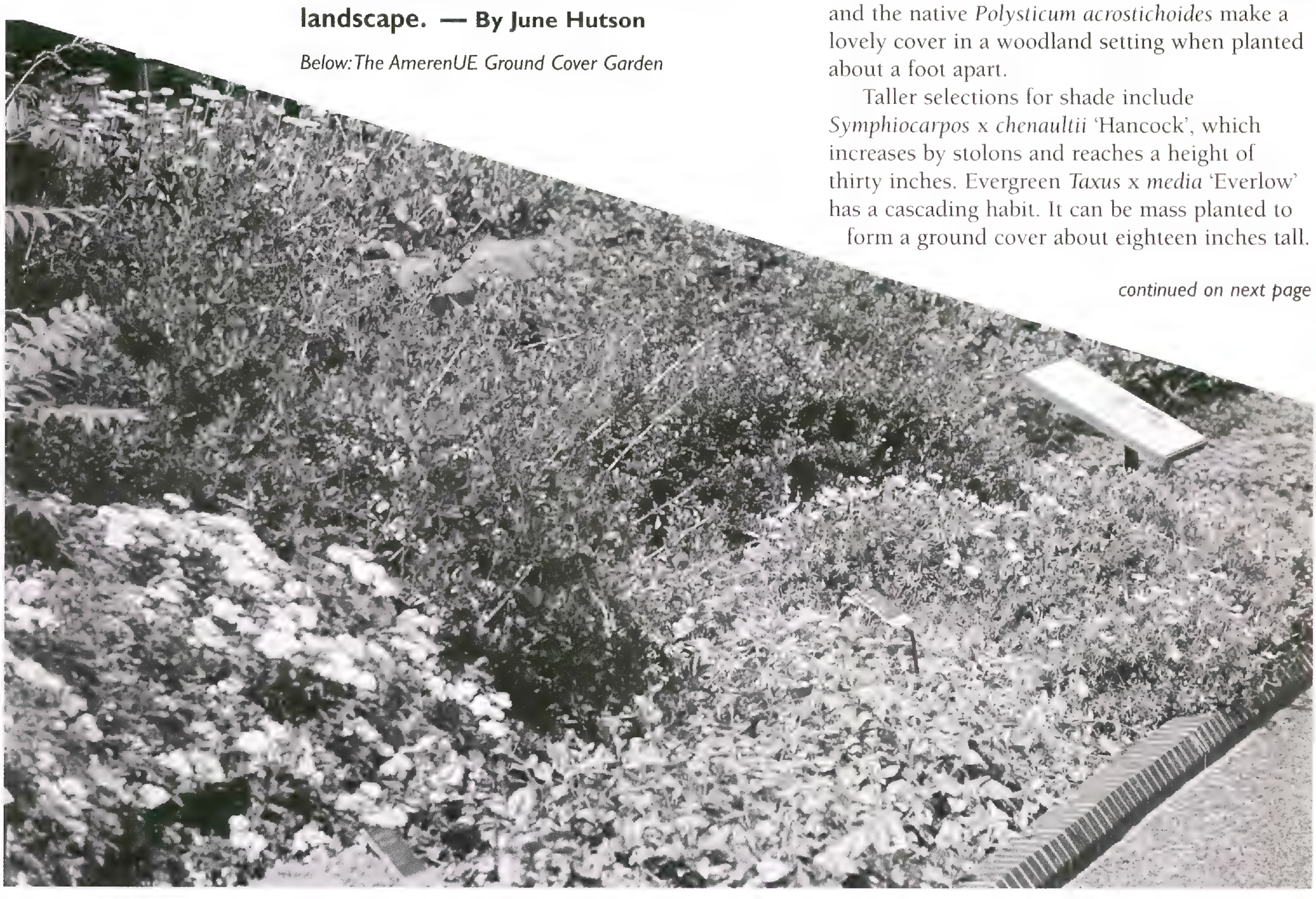
Ground Covers

Bring these versatile plants out of the background to enhance a challenging landscape. — By June Hutson

WE usually think of ground covers as anonymous little plants that spread quickly in shady areas. But you'll change your mind when you see the AmerenUE Ground Cover Garden at the Kemper Center, featuring some 45 different plants in all heights, textures, and colors. Ground covers can create attractive borders and provide exciting landscaping solutions for difficult locations.

The challenges can include steep banks, slopes, tree roots, and shady areas where turf refuses to grow. Ground covers also are excellent choices for planting beds next to buildings and can transform very wet or dry areas.

Below: The AmerenUE Ground Cover Garden



TIM PARKER

Plant Selection

When choosing plants, consider light requirements first, then the mature height of the plants. Ground covers are usually thought of as low growing, but there are many of various heights that can work beautifully.

Shade

For shady areas, common choices include *Vinca minor, Euonymous fortunei, Pachysandra terminalis*, and *Ajuga*. For other low-growing options, consider the almost prostrate *Mazus reptans*. It does well planted between stepping stones, and can take a bit of foot traffic. *Chrysogonum virginianum* var. *australe* also is low growing, with bright yellow flowers in spring. The native *Sedum ternatum* grows just four inches tall with interesting rounded foliage and snowy white flowers early in the growing season.

For shade plantings of medium height, *Epimedium* x *versicolor* 'Sulphureum' is a beautiful option with its heart-shaped leaves tinged with red. It grows about a foot high and tolerates the dry shade under trees well, as does *Lamium galeobdolon* 'Variegatum', which sports soft yellow flowers in the spring. Christmas ferns and the native *Polysticum acrostichoides* make a lovely cover in a woodland setting when planted about a foot apart.

Taller selections for shade include *Symphiocarpos* x *chenaultii* 'Hancock', which increases by stolons and reaches a height of thirty inches. Evergreen *Taxus* x *media* 'Everlow' has a cascading habit. It can be mass planted to form a ground cover about eighteen inches tall.

continued on next page

TIM PARKER

Last year the program collected over 500 cubic yards of garden plastic.

Don't Pitch Those Pots!

2nd Annual Plastic Pot Recycling Program

Bring your old plastic garden pots to the Garden, and they will be recycled into plastic lumber instead of going to the landfill. The program is sponsored this year by the St. Louis-Jefferson Solid Waste District and the Department of Natural Resources. Participants receive a free recycling guide, a free pass for two to the Garden, and a 10% discount coupon for the Garden Gate Shop. Members may add the coupon to their regular discount in the Shop. Please pass on the complimentary admission to a friend.

When: 3 Saturdays: July 17, 24, 31

Times: 9 a.m. to 4 p.m.

Where: West parking lot of The Monsanto Center, 4500 Shaw.

Remove soil and metal hangers from pots. No household plastic, please. For more information, call the Kemper Center for Home Gardening, (314) 577-9440.

GROUND COVERS continued

Sunny Locations

There are lots of great choices of ground covers for sunny conditions. Among the low-growing options, *Ceratostigma plumbaginoides* quickly develops into a short mat covered with blue flowers in late summer. The native *Verbena canadensis* forms a ferny mat and blooms intermittently all summer.

For a thorny barrier, consider the common barberry, *Berberis thunbergii* 'Crimson Pygmy.' Planted close together, it quickly produces a medium-sized ground cover. Hardy geranium, *Geranium sanguineum*, becomes an informal mass about fourteen inches tall when closely planted. The mid-sized quince, *Chaenomeles japonica* var. *alpina*, forms an airy group with bright orange flowers in the spring.

Many of the *Spiraea* cultivars such as 'Lime Mound,' 'Norman,' and 'Little Princess' can be used as a taller ground cover in sunny locations. Korean lilac, *Syringa meyeri*, increases by runners. Its fragrant lilac flowers bloom later than common lilac and miss late frosts.

Planting

The more rapidly a plant spreads, the further apart it can be planted for quick coverage. Typically, a spacing of one to two feet is recommended for small plants. The larger varieties can be spaced two to three feet apart. Staggering the pattern in the bed results in the quickest coverage.

June Hutson is the Aurelia Schlapp Curator of Perennial Plants at the Garden. For a profile of June, see page 6.

What's Coming Up

At the Kemper Center for Home Gardening

July Is "Kids in Bloom" Month –
see page 3.

August Work n' Tell Demonstrations

Saturday mornings, 11 a.m. to noon

Summer Plant House

Drop in for free hands-on demonstrations with St. Louis Master Gardeners. No registration required.

Featured in August: HERBS

AUGUST 7	**Herbal Vinegars**
AUGUST 14	**Herbal Sachets**
AUGUST 21	**Entertaining with Herbs**
AUGUST 28	**Dried Herb Braids**

Master Gardeners Answer Desk

Wednesdays and Saturdays through October 16

10 a.m. to 1 p.m.

Outdoors in the Kemper Center Gardens, at the entrance to the Garden for All. St. Louis Master Gardeners will be on hand to answer your questions.

TIM PARKER

Rebecca Reger (right), manager of Home Services for Laclede Gas Company, demonstrating the new gas grill for (from left): Andrea Voyer, Alan Stentz, Glenn Kopp, and Doris Johnson.

Hot On the Grill

Laclede Gas Company has donated a double gas grill for the Summer Plant House at the Kemper Center. The new grill was installed in March and is used in cooking classes offered by the Garden's Adult Education Program.

Gardening for Grownups

For a complete listing of the exciting classes offered for adults this summer, please see the brochure mailed recently to all members. Sign up soon — classes fill up early!

Directory of Regional Plant Societies

This list is published twice a year, in the January and July issues of the *Bulletin*. To change your listing, call (314) 577-0254.

African Violet Council
Pat Dunlap . . . . . (314) 789-3604

American Orchid Society (Mid-America Regional Judging . . .
Committee) *David Brown* 727-2385

Belleville Area Rose Society (618) 233-4609
Dennis Nelson http://users.accessus.net/~rosenut

Bonsai Society of Greater St. Louis
Bob Harris 352-0817

Boxwood Society of the Midwest
Sheila Hoffmeister 846-8430

Dahlia Society of Greater St. Louis
Ellis Evans 843-3767

Gardeners of America (Ozark Region)
Russell McClellan 837-2470

Gardeners of Metro East (GotMe)
Dawn Cordle . . . . . (618) 345-2194

Gateway West Gesneriad Society
Gary Dunlap . . . . . (314) 789-3604

Greater St. Louis Daylily Society
Arlie Tempel 521-2171

Greater St. Louis Iris Society
Jim Loveland 349-4977

Henry Shaw Cactus Society
Pat Thomann 773-2931

Metro East Herb Club
Linda Berk 961-4314

Mid-America Regional Lily Society
Fred Winterowd 423-5313

Missouri Botanical Garden Daylily Society
Mirko Bolanovich 965-7471

Missouri Mycological Society
Ken Gilberg 458-1458

Missouri Native Plant Society
George Yatskievych 577-9522

Missouri Orchid Society
Ron Taube 961-0577

North American Rock Garden Society
William Walley 382-7339

O'Fallon Iris Society
Vince Italian 739-3481

Orchid Society of Greater St. Louis
Ann Rogers 441-9502

Rose Society of Greater St. Louis
Phil Schorr 843-8493

St. Louis Carnivorous Plant Society
Susan Farrington 577-9402

St. Louis Herb Society
Pat Leigh 230-6213

St. Louis Horticultural Society
Mindy Keyser 421-6610 x236

St. Louis Hosta Society
Mirko Bolanovich 965-7471

St. Louis Water Garden Society
Sue Blumm 894-7609

West County Daylily Club
Chic Buehrig 389-8261

PARTY FOR BRICK DONORS
Members' Entry Court • October 7, 1999 • 5 to 7 p.m.

Order Your Brick Today!

Be part of our festive annual celebration for donors who have given bricks in the Members' Entry Court at the Kemper Center since last year's party. All brick donations support the Garden.

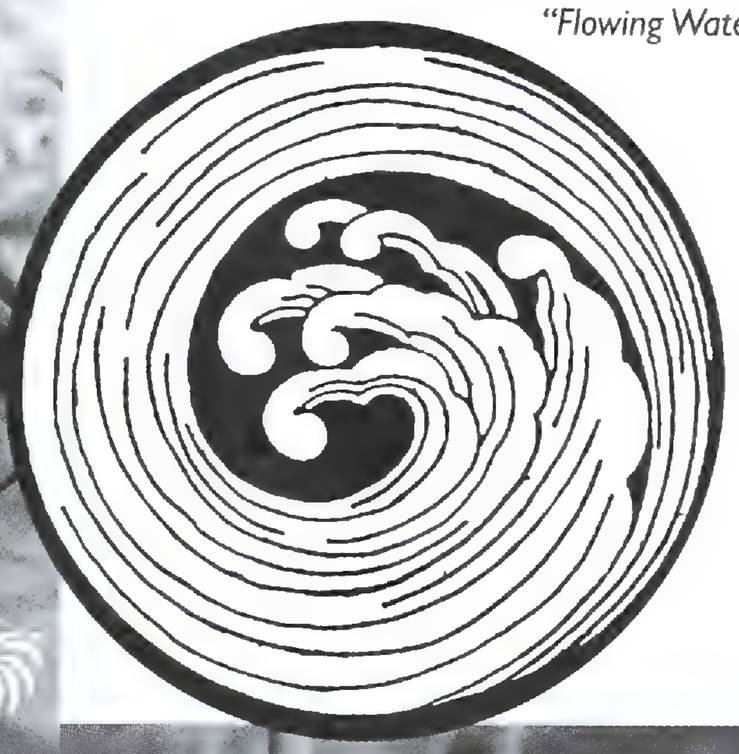
- **Engraved Clay Bricks – $300 each**
- **Bronze Signature Bricks – $1,000 each**
- **Up to 28 characters may be engraved on each clay brick — names only, please. We cannot accommodate dates or sentiments.**
- **Payment may be made by cash, check, or MasterCard/Visa.**

Order forms are available at the Membership Services Desk in the Ridgway Center, at the Kemper Center, or you may call the Development Office at (314) 577-9495. Bricks ordered after September 10, 1999, cannot be installed in time for the party on October 7, but of course all donors are welcome to attend the party. Order your brick today!

Calendar of Events

July & Aug.

1999 Festival Theme:
"Flowing Water"



PHOTOGRAPHY BY TIM PARKER

COMING UP Labor Day Weekend

September 4–6, 1999

10 a.m. to 10 p.m. – Sat. & Sun.

10 a.m. to 5 p.m. – Monday

23rd annual

japanese festival

Admission:

$6 Adults, $4.50 seniors, $2 members. Free to children age 12 and under.

Featuring: Zendeko Taiko of Los Angeles

NEW for 1999:

Nagamochi Masters – Dancers from St. Louis Sister City, Suwa, Japan

Gagaku – Ancient Japanese Dance

Taishokoto – Contemporary Musical Instrument

Nagano Ice Sculpture

Contemporary Decorative Arts Exhibit

Plus – Bonsai, Ikebana, Tea Ceremonies, Bon Odori Festival Dancing, Cooking Demonstrations, Kimono Fashion Show, Shibori Dyeing, Raku Pottery Demonstrations, Children's Activities and Crafts, Candlelight Walks in Seiwa-en, Japanese Marketplace, Food & More

Festival Informaton 24-Hour Hotline: Call 577-9400 or 1-800-642-8842

The 23rd Annual Japanese Festival is sponsored by the Missouri Botanical Garden and the Japanese Activities Committee, a coalition of organizations that includes the Japanese American Citizens' League, Japan America Society of St. Louis, Japanese Chamber of Commerce & Industry of St. Louis, St. Louis Japanese Language School for Children, St. Louis–SUWA Sister City Committee, St. Louis Japan Society, Seinen Committee, The Women's Association of the Japan America Society, and the Office of the Consulate General of Japan in Kansas City.

July & August Events

July 1–9

Exhibit: "Flower Power"

9 a.m. to 5 p.m. daily, Monsanto Hall. More than 50 acrylic paintings by Robert Stolz feature flowers, fruits, and vegetables. Free with Garden admission or membership.

July 1 – August 20

Exhibit: "Cacti & Succulents"

9 a.m. to 8 p.m. daily, Grigg Lobby. Beautiful color photographs by Steve Feiner, a member of the Henry Shaw Cactus Society, capture the dramatic beauty of cacti and succulents in large format cibachrome prints. Free with Garden admission or membership.

July 3, 10, 17, 24, 31 Saturdays

"Kids in Bloom"

See page 3 for details.

July 7 Wednesday

Whitaker Jazz Festival: Johnnie Johnson

7:30 p.m., Cohen Amphitheater. Spend an evening under the stars with jazz and blues legend Johnnie Johnson. Lawn seating, cash bar. Bring a picnic, or box suppers are available for purchase from the Gardenview Restaurant; call 577-9528 to order. Sponsored by the Whitaker Foundation. Free admission.

July 15 Thursday

Exhibit: "Art in Science"

9 a.m. to 8 p.m., Monsanto Hall. A juried show featuring 75 works by the nation's leading botanical illustrators, presented in conjunction with the XVI International Botanical Congress. See page 16 for details.

July 17 Saturday

StoryTime

11 a.m., Garden Gate Shop. For children ages four to ten. Today features "From Prickly Cactus to Flying Squirrels: Life in America's Deserts and Mountains," with Marianne D. Wallace, author and illustrator of the children's books. Listen to a story or two, make a fun project to take home, and learn about the world of plants. Parents are welcome to attend, and children under four must be accompanied by an adult. Free, no reservations.

July 17 – 24

Henry Shaw Cactus Society Show and Sale

July 17: noon to 8 p.m. July 18: 9 a.m. to 8 p.m. July 19-24: 9 a.m. to 5 p.m. In the Orthwein Floral Display Hall. Free with Garden admission or membership.

July 17, 24, 31 Saturdays

Plastic Pot Recycling

9 a.m. to 4 p.m., west parking lot, 4500 Shaw Blvd. at The Monsanto Center. See page 9 for details.

July 24 Saturday

Henry Shaw's Birthday Celebration

1 to 5 p.m. Celebrate the 199th birthday of the Garden's founder. Festivities begin at the Tower Grove Park bandstand, where Henry Shaw arrives in a horsedrawn carriage and leads a parade to the Garden. Guests will enjoy music, refreshments, a magician, tours of historic Tower Grove House, and fun for the whole family. Free with Garden admission or membership.

July 14 Wednesday

July 20 Tuesday

Madam Butterfly Tea Party

For children ages 3 to 12, sponsored by the Tower Grove House Auxiliary. Kimono clad hostesses will greet guests at Tower Grove House, where they will enjoy refreshments at decorated tea tables and receive a miniature Japanese fan to take home. Following tea, Garden Guides will lead guests on a tour of the Japanese garden, Seiwa-en. Reservations are $10 per person and must be paid in advance. Please call (314) 577-5150 for further information and reservations.

Walking Tours led by Garden Guides – 1 p.m. daily.

Eco-Cart Demonstrations – Every Saturday from 11 a.m. to 3 p.m. in the Brookings Interpretive Center.

Garden Walkers' Breakfast – In cooperation with the American Heart Association, the grounds open every Wednesday and Saturday morning at 7 a.m. to encourage fitness walking. A heart-healthy breakfast is available for purchase in the Gardenview Restaurant, 7 a.m. to 10:30 a.m.

July & August Events

MEMBERS' DAY
July 8 Thursday

Garden Photography

11 a.m., Shoenberg Auditorium. A presentation by Christine Kurtz Fuerhoff, a Garden volunteer and St. Louis Master Gardener of the Year, who has been photographing gardens for 25 years. In the Garden Gate Shop, members receive five percent additional discount on all prints, posters, framed pictures, and photography books. Seating in the Auditorium is on a first-come, first-served basis.

MEMBERS' DAY
July 9 Friday

Early Morning Photo Workshop

6:30 a.m., meet at Shoenberg Auditorium. Bring your camera and join Christine Fuerhoff and R. Todd Davis for an outdoor workshop on Garden grounds. Davis, a native St. Louisan, is a noted professional photographer whose work has appeared in many national gardening and wildlife publications. Reservations for the workshop are recommended but not required: call (314) 577-9500.

MEMBERS' DAY
August 18 Wednesday

Bioprospecting: Plants for Future Products

11 a.m., Shoenberg Auditorium. Garden botanists collect plants all over the world for screening by the National Cancer Institute and others. Some plants may turn out to be the source of new medicines, foods, and other products. Join Dr. Jim Miller of the MBG Research Division for a look behind the scenes at how plants benefit people. Seating in the Auditorium is on a first-come, first-served basis.

Members' Days are free, for Garden members and their guests. Receive free tram rides, extra discounts in the Garden Gate Shop, and 10% off in the Gardenview Restaurant.

July 25 Sunday

Greater St. Louis Iris Society Sale

11 a.m. to 5 p.m., Orthwein Floral Display Hall. Surplus rhizomes from the Garden's iris displays are available for purchase. All proceeds benefit the Garden. Free with Garden admission or membership.

August 4 Wednesday

Lecture: "Flora on the Shroud of Turin"

8 p.m., Shoenberg Auditorium. In conjunction with the XVI International Botanical Congress, the Garden presents a lecture by Professor Avinoam Danin of the Alexander Silberman Institute of Life Sciences at the Hebrew University of Jerusalem. Professor Danin will present new results of his investigations on the origin of the Shroud of Turin, the garment in which Jesus is said to have been wrapped after his crucifixion. Lecture is free and open to the public.

August 7, 14, 21, 28 Saturdays

Work n' Tell Demonstrations

11 a.m. to noon, Summer Plant House. See page 9.

August 15 Sunday

MBG Daylily Society Sale

9 a.m. to 5 p.m., Orthwein Floral Display Hall.

August 21 Saturday

StoryTime

11 a.m., Garden Gate Shop. See July 17 for details.

August 22 Sunday

Greater St. Louis Daylily Society Sale

9 a.m. to 5 p.m., Orthwein Floral Display Hall.

August 23 – September 8

Exhibit: Japanese Contemporary Art

9 a.m. to 8 p.m., Ridgway Center. In conjunction with the 23rd annual Japanese Festival. Free with Garden or Festival admission — see page 11 for details.

CHEFS IN A GARDEN

SAVE THE DATE!

Sunday, September 12, 1999

A Special Evening to Benefit Gateway Greening, Inc.

6 to 9 p.m.

$100 per person • For tickets, call 577-9484

Seating is limited to 200.

Tables for eight may be reserved for $1,000.

Join us for the second annual "Chefs in a Garden," where talented chefs from ten of the finest restaurants in town create innovative fare using fresh vegetables and herbs grown by St. Louis community gardeners. Sample exciting dishes and taste superb wines, micro-brews, and Starbucks coffees while enjoying delightful music in the lovely atrium of the Edward Jones building.

Participating restaurants include: Harvest • The Crossing • Crazy Fish • LoRusso's Cucina • and more!

Gateway Greening, Inc., is a non-profit organization with headquarters at the Missouri Botanical Garden. Gateway works with neighborhoods in St. Louis to turn abandoned lots into community gardens and green spaces.

Members

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Save the Date! • October 2 & 3, 1999
1999 Best of Missouri Market
Savor the finest of Missouri foods, crafts, and specialty items at this popular annual festival, featuring live entertainment and much more! Watch for details in the September *Bulletin*.

TIM PARKER

The Garden Tour Committee (from left): Sue Oertli, Ann Bowen, Carol Squires, and Margie Jaffe.

1999 Garden Tour – A Sunday Spectacular

The 1999 St. Louis Garden Tour on Sunday, June 13 was a great success, attended by more than 1,100 members and their guests. Our thanks go to the committee and to the sponsors who made the day possible:

Tour Sponsors

Clark Refining & Marketing, Mr. and Mrs. Derick Driemeyer, Edward Jones, Markway Construction Co., Merrill Lynch, National Steel, Southwest Bank, Stifel Nicolaus & Company, Target Stores, Mr. and Mrs. Ken Teasdale, and Mr. and Mrs. Robert Tschudy.

Bus Sponsors

Colors of Spring, Frisella Nursery, Inc., Gilberg Perennial Farms, Gringo Jones, Horstmann Brothers, Inc., Maxwell Homestead Greenhouse, Shield Shade Tree, Inc., and Timber Creek Nursery.

Young Friends Sponsor Party

"Temptation in the Garden"

The Young Friends of the Missouri Botanical Garden will welcome guests ages 25 to 40 to the second annual "Temptation in the Garden" party on Saturday, July 17, 7 to 11 p.m. The party, held outdoors by the water lily pools, will feature twilight tram rides and live entertainment. For reservations, please call (314) 577-9500.

The "Temptation" Committee: STANDING, back row from left: Jennifer Macalady, Alicia Creighton, Rich George, Anne Suppiger, Andy Dielmann, Fred Rapp, Liza Mason. SEATED, from left: Kalleen Munsch, Drew Luning, Susie Hizar, Meredith Wolfarth, Hilary Daniel, Claire Halloran.

New Members of the Peter H. Raven Society

The Peter H. Raven Society, named in honor of the Garden's director, recognizes individuals who make unrestricted annual gifts of $10,000 or more for a minimum of three years. We are grateful to acknowledge these new members of the Raven Society for their generous support:

Mr. and Mrs. Herbert D. Condie III

Mr. and Mrs. Parker B. Condie

Mr. and Mrs. William Holekamp

TIM PARKER

Shown with Peter Rabbit, the guest of honor at the Mother's Day Luncheon (from left): Andrea Tramelli and Debbi Flowers, co-chairs, with Cindy Preszler of Channel 5 Weather, celebrity emcee.

Peter Rabbit and Friends Salute Mother's Day

Congratulations to the committee who organized the Mother's Day Luncheon on May 7, featuring a showing of spring fashions by Dillard's. The popular annual event was sponsored by Dillard's and attended by a record number of guests. With special thanks to *St. Louis Homes & Lifestyles* and Party Arts.

Trustees

Past Presidents of the Members' Board

Mrs. Shadrach F. Morris, Jr.

Upon moving to St. Louis in the mid-1960s, the first thing Isabelle Morris did was to join the Garden.

"I was always a gardener," she said, "and I had always heard about 'Shaw's Garden.' The Welcome Wagon had a membership application, and I sent it in right away."

She began with some of the outstanding horticulture classes taught by Clarence Barbre and Ken Peck. Isabelle went on to join the St. Louis Herb Society and was part of the first group of Garden Guides to be trained in 1968. The following year she became co-chair of the Guides and began serving on the Members' Board.

"I must have been on every committee they had at one time or another," Isabelle recalls, and she served as president in 1981-83. During her tenure, the Ridgway Center opened, the Board held a gala benefit featuring Bobby Short, and the membership reached 10,000.

In 1983 Isabelle became a St. Louis Master Gardener and participated in the opening of the Kemper Center. She also continues to be active on the Tower Grove House Historical Committee.

With the support of the Horticulture Division and the able assistance of fellow volunteer Holly Brigham, Isabelle conceived and launched the popular "MBG Signature Plants" program — propagating unusual and hard-to-find species and cultivars from the Garden's living collection. Proceeds from sales of the plants are donated to the Garden.

"It is a pleasure to be active at the Garden," Isabelle said. "As volunteers, our enthusiasm is a direct result of the support and goodwill of the staff."

TIM PARKER

David Kemper (left), president of the Board, with Cedge Barksdale.

TIM PARKER

Peg Oberheide receives her award from David Kemper.

Barksdale and Oberheide Honored

IN APRIL, the Trustees paid tribute to two longtime members of the Board for their years of service to the Garden.

Clarence C. "Cedge" Barksdale – 35 Years

Cedge Barksdale was elected to the Board of Trustees in 1964 and became an Emeritus Trustee in 1988. In his 35 years on the Board he has been an active fund raiser, serving on the Investment and Development committees. Currently he is chair of the new Corporate Partners Program, launched last year to strengthen the relationship between the Garden and corporations in the St. Louis region. Under his leadership the Corporate Partners Program has already achieved significant success. Mr. Barksdale is the retired president of Centerre Bank and is currently Vice Chairman of the Board of Trustees of Washington University.

Mrs. Fred A. Oberheide – 15 Years

Peg Oberheide has been a Garden Trustee since 1984 and was named an Emeritus Trustee in 1992. She has supported the cultural life of St. Louis as a generous donor and tireless volunteer for 50 years, and in 1997 she was honored as Outstanding Philanthropist of the Year by the National Society of Fund Raising Executives. Mrs. Oberheide's generous gifts to the Garden include Grigg Hall in the Ridgway Center, given in memory of her late husband Hamblett Charles Grigg, and the Margaret Grigg Nanjing Friendship Garden, given in memory of her parents, Estelle and Robert Blanke.

Peter Raven Is Named "Hero for the Planet" by *TIME* Magazine

Peter H. Raven, director of the Garden, was named as one of the "Heroes for the Planet" in the April 26, 1999 issue of *TIME*.

In a special "Earth Day" section, the latest installment of the magazine's continuing environmental series, the editors of *TIME* invited readers to "meet the teachers who help us see the challenges, and a new generation that's responding."

The feature story by Roger Rosenblatt, *TIME*'s science editor, describes the Garden and its leadership in educating the public about the importance of biodiversity.

Garden members who may have missed seeing the story are welcome to call the Development Office at (314) 577-5120.

Paphiopedalum 'Eagle Park x Hellas', watercolor by Judith Kirby.

Art in Science

July 15 – August 16, 1999 • 9 a.m. to 8 p.m. daily, Ridgway Center
Presented in conjunction with the XVI International Botanical Congress

Magnificent works by some of the nation's leading botanical artists will be on display in Monsanto Hall this summer. A juried show sponsored by the American Society of Botanical Artists and the Guild of Natural Science Illustrators, the exhibit is presented at the Missouri Botanical Garden in conjunction with the XVI International Botanical Congress.

The Congress is meeting in St. Louis August 1–7, 1999. More than 4,000 scientists from over 100 countries will attend the Congress. It is expected to be the largest convention of the year to meet in the city.

This superb botanical art is one of the most significant displays at the Garden this year.

Ninety-one artists from 12 countries submitted 240 entries for judging. Seventy-five were selected for exhibition. In addition to a grand prize for "Best of Show" and several honorable mention awards, the Missouri Native Plant Society will present a $250 prize for the best rendering of a native midwestern plant. A catalog of the artists and their work will be available.

Works on display range from charcoal to pen and ink, colored pencil, watercolor, oil, and acrylic media. " This will be one of the most significant exhibits at the Garden this year," said Dr. George Yatskievych, head of the jury panel. "The quality and variety of the work are superb, equal to any recent exhibitions of botanical art."

ABOVE, LEFT: *Sarracenia purpurea*, watercolor by Robin A. Jess. ABOVE, RIGHT: *Luffa cylindrica*, watercolor by Joan Lavigueur Geyer.

BELOW, LEFT: *Maclura pomifera*, watercolor and gouache by Charlotte Straub Thomas. BELOW, RIGHT: *Cyclamen persicum*, pencil by Olga Eysmont.

In Memoriam

MISSOURI BOTANICAL GARDEN ARCHIVES

Jane Freund Harris

FOR more than 40 years, Jane Freund Harris was a devoted friend to scores of St. Louis cultural and charitable institutions. She died April 16, 1999, at her home in Ladue. She was 78.

Together with Whitney, her husband of 35 years, Jane Harris gave tirelessly of her time and support to others. She was named Outstanding Fund Raising Volunteer in the United States by the National Society of Fund Raising Executives and recognized for distinguished service by President Ronald Reagan. As the first president of the Women's Association of the Japan America Society, she was instrumental in raising funds for the dedication monument at the Japanese garden and provided some of the first colorful koi for the lake.

Mrs. Harris was an avid gardener, specializing in orchids, and visited the Garden's orchid ranges weekly. Known for always wearing an orchid in her hair, she was affectionately known as "The Orchid Lady."

In 1977, Jane Harris encouraged her mother, Adlyne Freund, to fund the aquisition of 220 acres at Shaw Arboretum, which became the Adlyne Freund Education Center. In 1993, Jane and Whitney gave the Secret Garden, one of the outdoor demonstration gardens at the William T. Kemper Center for Home Gardening, and in 1997 they helped fund a major renovation of the Freund Center. In 1998, the Harrises were named to the Arboretum Committee of the Board of Trustees.

As one of the speakers at the funeral service, Peter Raven said, "Jane was a wonderful friend and an extraordinary philanthropist — she truly earned the title "Professional Volunteer." Her dedication to the Garden and the Arboretum, and the energy and generosity she brought to everything she did, enriched life for everyone in St. Louis."

Jane Freund Harris Memorial Orchid Fund

A special tribute fund in memory of Jane Harris has been established at the Missouri Botanical Garden. This special fund will honor Mrs. Harris and her love of orchids for years to come. To contribute, please call the Development Office at 577-5120.

TIM PARKER

Janet Klein, Dr. Klein's wife, with Peter Raven at the new bench.

Bench Dedicated in Memory of William Klein

Friends and family of the late William McKinley Klein, Jr., gathered in the Japanese garden on May 22, 1999, to dedicate a handsome seating bench in his memory. Dr. Klein was assistant director of the Garden from 1972 to 1977 and a former director of the Morris Arboretum in Philadelphia and Fairchild Tropical Garden in Miami. At the time of his death in 1997, he was president and chief executive officer of the National Tropical Botanical Garden.

Dr. James Aronson, a botanist who began his career at the Garden, wrote in a tribute, "Three things stand out in my memories of Bill: his love and respect for people of all kinds, his love and concern for plants of all kinds, and his great love of gardens, the ideal place to begin learning about nature and space."

Conservation Reinvestment Act of 1999

LEGISLATION has been introduced in Congress to provide funding for state-level wildlife conservation and related education and recreation. The bill, H.R. 701 and S. 25, is known as the Conservation Reinvestment Act of 1999.

If passed, the Act would send 50 percent of the revenue collected by Outer Continental Shelf (OCS) oil and gas leases, which currently goes to the U.S. Treasury, to the states to permanently fund the following programs.

Coastal Impact Assistance ($1.24 billion) – Funds would go to coastal states and communities for programs associated the impact of federal offshore oil and gas activities, including air and water quality, wildlife and wetlands conservation, onshore infrastructure, and public service needs. Missouri is not eligible for these funds.

Land-based Recreation ($734-900 million) – Funds would support both Federal and State Land and Water Conservation Funds and the Urban Parks and Recreation Recovery Program. Missouri would receive approximately $7.3 million, which would be administered by the Department of Natural Resources.

Wildlife Conservation and Restoration ($321-459 million) – Funds for state-level wildlife conservation, habitat restoration, and related recreation and education, with a focus on non-game species. Missouri would receive about $9.8 million, which would be administered by the Department of Conservation.

For more information on the Conservation Reinvestment Act, please call the Conservation Federation of Missouri, 1-800-575-2322.

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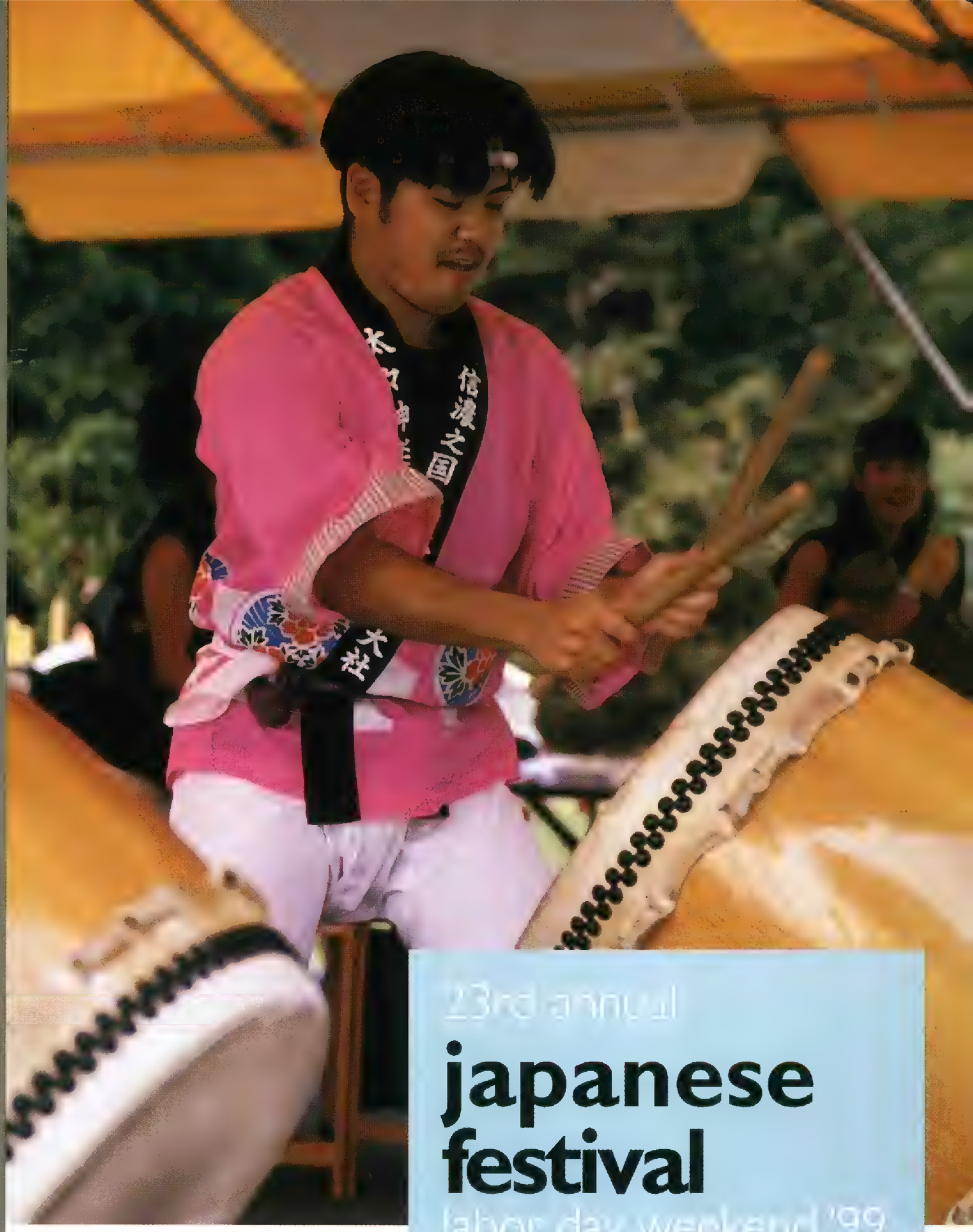

23rd annual
japanese festival
labor day weekend '99

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Missouri Botanical Garden

SEPTEMBER / OCTOBER
1999

VOLUME LXXXVII
NUMBER FIVE

Right: Joe Summers wading in the Amazon River to collect seed from Victoria *water lilies.*

Center: Fortunately, the only crocodiles the explorers encountered were in captivity.

Far right: Tropical water lilies on display at the Garden.

WATER LILIES *from*

An expedition returns with seeds of *Victoria amazonica*, the largest tropical water lily in the world.

AN EXPEDITION TO THE AMAZON RIVER IN BRAZIL last March yielded seeds of a rare tropical water lily, *Victoria amazonica*. The plants are spectacular, producing leaves up to seven feet in diameter.

Victoria species and hybrids are a colorful display at the Garden, blooming in the pools in front of the Climatron. Seeds from the trip are being used to produce new plants and, it is hoped, will strengthen the species' gene pool.

Horticulturist Joe Summers accompanied a group from the Victoria Conservancy Project, a branch of the International Water Garden Society. His seven-day trip was supported by a generous donation from Sherwood Forest nursery and garden center.

"Seeing the Amazon and its plant and animal life was an incredible experience," Summers said. "We were amazed to discover *Vicotoria* lilies growing in water 20 feet deep, since it has been assumed that they only grow in two to three feet of water." Summers had to wade to find the seed pods, which mature on the river bed. "At one pool, a local woman came and warned us that a big crocodile lived there," he said.

Summers's job is usually less dangerous. He is responsible for maintaining the Garden's aquatic collection and propagating plants in the greenhouse. He works closely with Jon Sweeney, who designs and maintains the outdoor displays. Together they have revitalized the water lily collection — this year there are more than 40 different hybrids on spectacular display.

Most tropical water lilies are propagated from tubers. *Victoria amazonica*, however, is grown from seed and is notoriously difficult to germinate.

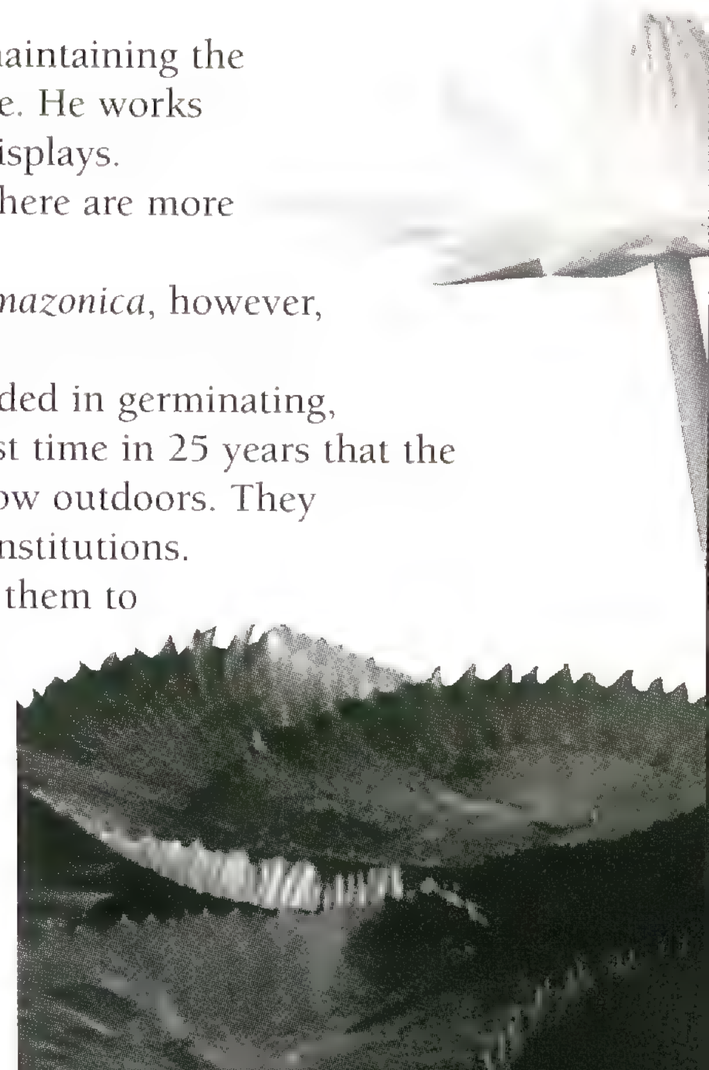
In 1998, in their second attempt, Summers and Sweeney succeeded in germinating, growing, and producing seed from *Victoria amazonica*. It was the first time in 25 years that the species had been on display at the Garden, where it is difficult to grow outdoors. They shared plants from the seed they produced with 11 other botanical institutions.

Producing seed from *Victoria* is even more difficult than getting them to germinate. All *Victorias* are night bloomers pollinated by night-flying insects, especially the large scarab beetle, *Cyclocephala hardyi*.

The blossoms open at sunset for just two nights and close up in the morning sunlight. Insects enter the flowers in the evening and remain inside during the day. The first night, the flower is pure

MBG horticulturist Joe Summers with a Victoria *flower on his trip to the Amazon.*

Right: The tropical water lily Nymphaea *'Mrs. George H. Pring' blooms at the Garden.*



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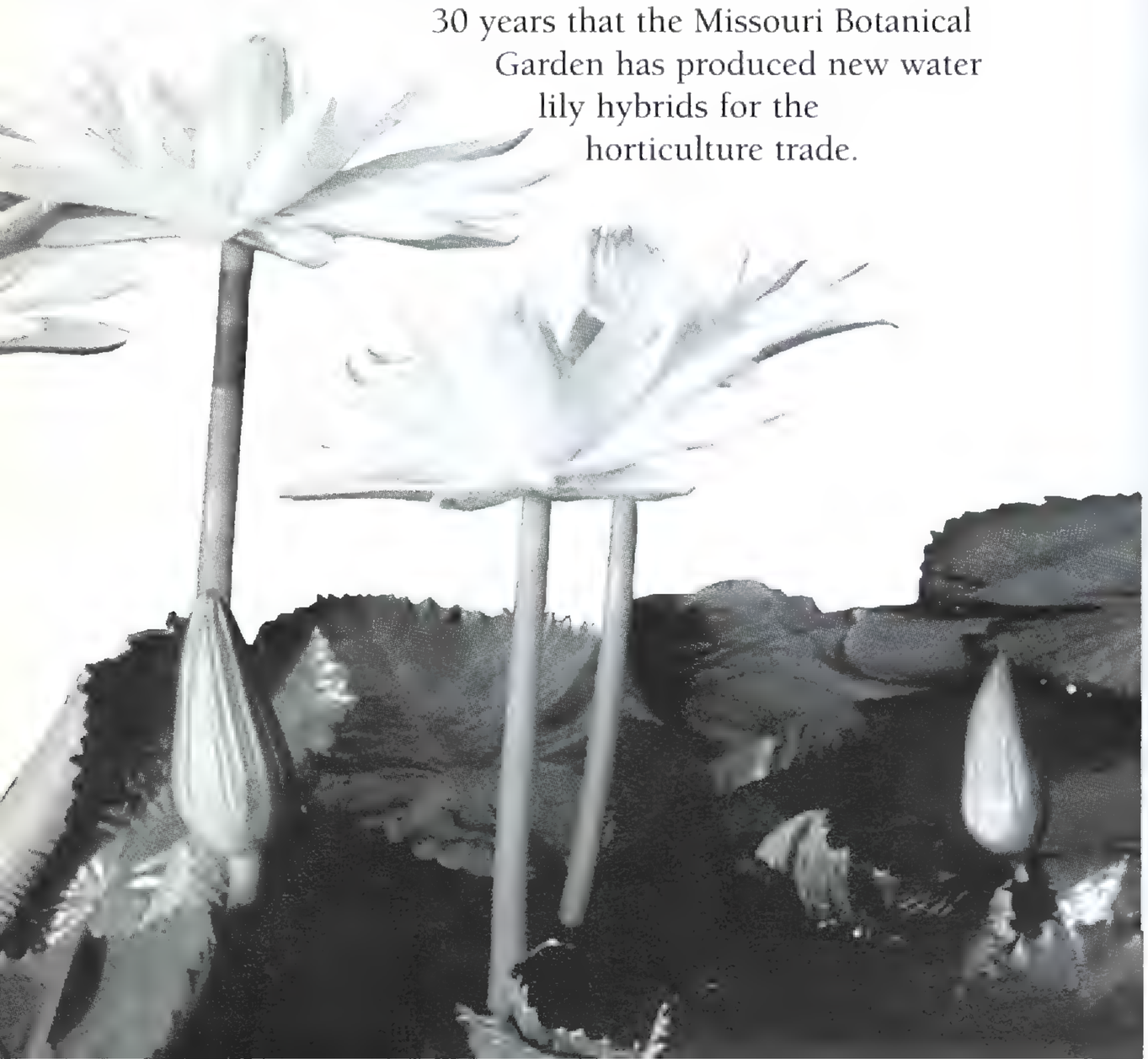
the Amazon

white, with a fragrance of pineapple and butterscotch; the second night, the flower is pink.

Because the tropical insects do not live in this part of the world, the plants at the Garden must be pollinated by hand. That's why Summers and Sweeney can be seen wading around in the lily pools at odd hours of the night.

Last summer, their experiments were successful and produced seed. In the process, Summers created two new *Victoria* hybrids, *V.* 'Adventure' and *V.* 'Discovery'. The new hybrids will be introduced this fall, marking the first time in 30 years that the Missouri Botanical Garden has produced new water lily hybrids for the horticulture trade.



The Legacy of George Pring

Water lilies were his passion. To this day, hybrids introduced by the late George H. Pring, superintendent of horticulture at the Missouri Botanical Garden from 1928 to 1969, are grown and treasured all over the world.

Born in England in 1885 and trained at Kew Gardens, Mr. Pring accepted a job in St. Louis in 1906 as foreman of orchids and exotic plants. In his 63-year career at the Garden, he earned a formidable reputation as an orchid expert, building the collection to over 50,000 specimens.

George Pring propagating water lilies in the Garden's greenhouses. During his career, the Garden was one of the largest producers of Victoria *and* Nymphaea *water lilies in the world.*

MISSOURI BOTANICAL GARDEN ARCHIVES

In 1912 he expanded his attention to breeding water lilies. While others had introduced excellent cultivars earlier, George Pring is credited with the most outstanding achievements.

In his quest to produce a pure white hybrid of good size and form, he produced the lovely white *Nymphaea* 'Mrs. George H. Pring' of 1922 and the outstanding yellow *N.* 'St. Louis' of 1930. In 1932 he introduced a pure white night bloomer with 15-inch flowers, *N.* 'Missouri.' He consulted on the outstanding *Victoria* hybrid, *V.* 'Longwood Hybrid', produced at Longwood Gardens in Pennsylvania.

Mr. Pring was known and loved in St. Louis as the original "Answer Man." Before the introduction of the Horticultural Answer Service, he personally handled thousands of inquiries each year. As tradition has it, he was never stumped.

Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

THE IDEA WAS TO TURN THE WORLD UPSIDE DOWN. To make people understand that life on earth is threatened for future generations, if not for ourselves today. This was the central theme and focus of the XVI International Botanical Congress, which met in St. Louis in August.

As you will see in the special section beginning on the next page, nearly 5,000 botanists from 80 countries discussed every aspect of botanical research. The bottom line was the importance of plants to sustaining the stability and quality of human life on this planet, whether for the next century or the next millennium.

This is our responsibility, as I said at the Congress:

"Plants provide, directly or indirectly, all of our food, most of our medicine, and large proportions of the chemical substances that we use, of our shelter, and of our clothing. They protect the topsoil, ensure the quality of the water that we drink, determine local climates, and ultimately provide food and shelter for all other living beings. They are beautiful and diverse; they nourish our souls as well as our bodies.

"Yet we destroy them at a frightening rate, so that as many as 100,000 of the estimated total 300,000 species may be gone or on the way to extinction by the middle of the next century. If we do not take action now, by the end of the century we may have destroyed two-thirds of the plant species we currently use and enjoy.

"....By taking concrete steps in the near future, we could prevent the extinction of the great majority of these plant species.... Considering the importance of plants to the healthy and prosperous survival of humanity into the 21st century and beyond, we should find the necessary resources. In fact, anything less is neither intelligent nor worthy of us. Let us determine here and now to take these steps, and take them together."

As members of the Missouri Botanical Garden, you have already demonstrated your commitment to these goals. Thank you for working with us to ensure the future of our world.

— Peter H. Raven, Director

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On the Cover

Castor bean, Ricinus communis, *in the Kresko Family Victorian Garden. – Photo by Jack Jennings*

Editor
Susan Wooleyhan Caine

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PHOTOGRAPHY BY TIM PARKER

Peter Raven, president of the Congress, addressing the Opening Session.

Sustainability & Survival

World's Largest Gathering of Plant Scientists Meets in St. Louis

IN the coming decades, only a united, global effort can prevent a massive loss of the plant species needed to sustain quality of life for all humankind, and plant scientists must help lead the way.

This clarion call to action was the central theme of the XVI International Botanical Congress, which met in St. Louis August 1–7, 1999 at the America's Center. The Missouri Botanical Garden was the host institution for the gathering of nearly 5,000 plant scientists from 80 countries.

Peter H. Raven, director of the Garden, was president of the Congress. John McNeill of the Royal Ontario Museum and José Sarukhán of the Universidad Nacional Autónoma de México served as vice-presidents. The Congress was organized by the entire North American botanical community.

Scientists from dozens of different disciplines met to share the latest information in plant science and participate in more than 200 symposia. Breakthrough research and major discoveries were presented daily during the Congress, which received international media attention.

Speakers at the opening session emphasized that increasing our knowledge about plants is essential to the stability and sustainability of human life on earth. Rita Colwell, director of the National Science Foundation, said, "Plant science is about developing better food, finding new medicines, and providing healthier air.... aggressive research is key to understanding how to balance protection of the planet while sustaining the health and prosperity of our growing populations."

Karl-Henrik Robért, one of Sweden's foremost cancer specialists, called for a "taking-care-of-the-planet culture." Robért is the founder of The Natural Step, a highly regarded non-profit program that works with businesses and governments to find sustainable solutions to environmental problems.

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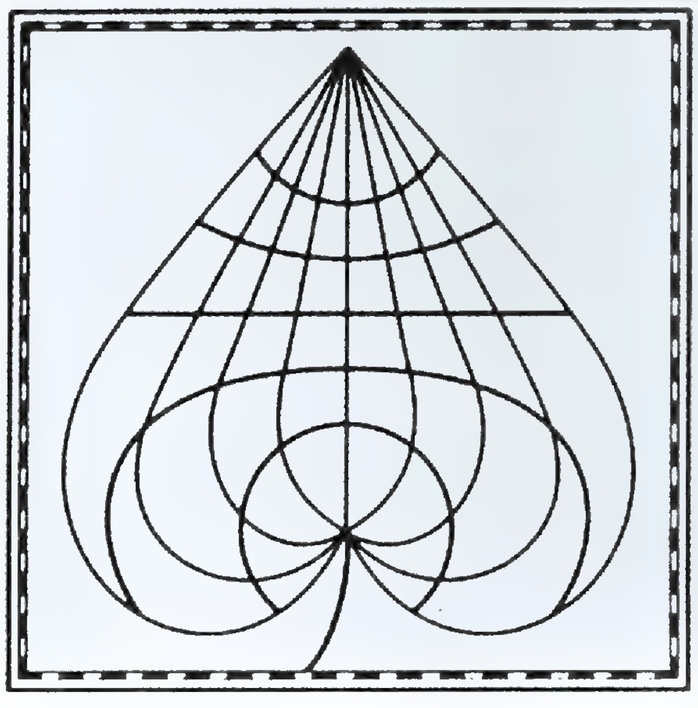

Welcoming the World

Groundbreaking Research in Plant Science Announced at the Congress

THE ENVIRONMENT

Extinction Rate Rivals Age of the Dinosaurs

If current trends continue, a third of all plant and animal species on earth — mostly in the tropics — could be extinct in just 50 years, and two-thirds could be gone by the end of the next century, according to current data. Plants are disappearing faster than scientists can find them, study them, and apply the knowledge for human benefit.

Peter Raven offered a seven-point plan calling for a United Nations-style coordination of plant conservation efforts, more funding for research, wider access to information, and special attention to conserving medicinal species. "All plants are important in one way or another, and this comprehensive plan seeks to save them all — a priceless gift to future generations," Raven said.

Human "Footprint" Impairs Earth

Human activities have adversely affected half the land surface of the earth, and 50 "dead zones" have developed in coastal waters around the globe. The latest findings, announced by Jane Lubchenco of Oregon State University and Harold A. Mooney and Peter M. Vitousek of Stanford University, show a "disturbing negative trend in the earth's ability to maintain the quality of human life."

Global Species Survival Program

The World Conservation Union (IUCN), the world's largest network of conservation expertise, is preparing to launch an international collaborative program to save plants in "hot spots," areas where large numbers of species face a major risk of extinction. Plants with potential crop or medicinal value will be emphasized. "We simply cannot afford another decade, let

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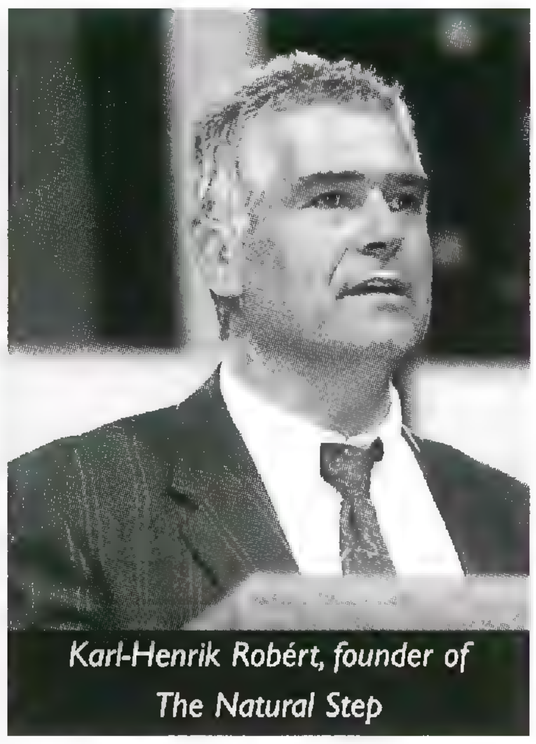
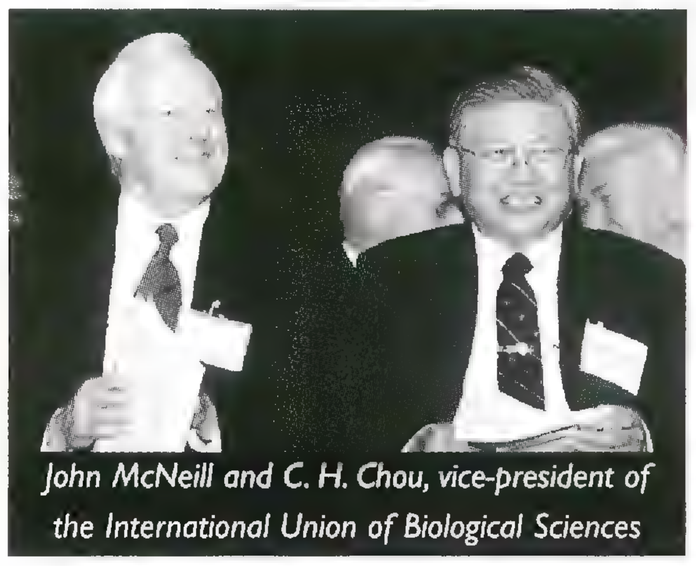


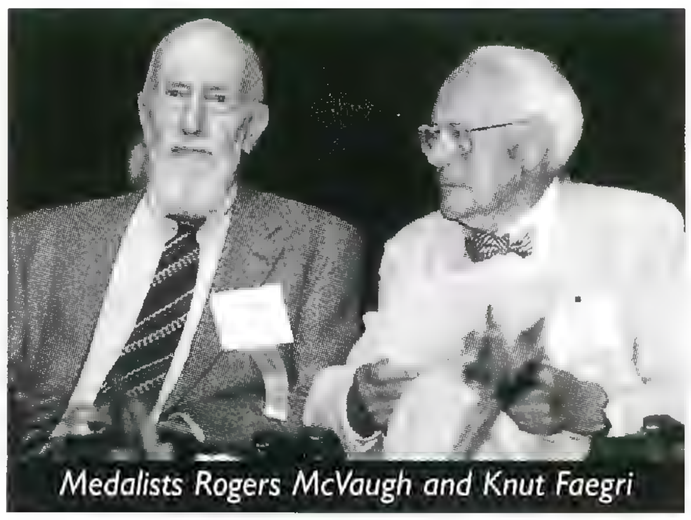
Karl-Henrik Robért, founder of The Natural Step

Peter Raven presents the Millennium Medal to Jerzy Rzedowski



John McNeill and C. H. Chou, vice-president of the International Union of Biological Sciences

Rita Colwell, director of the National Science Foundation



Medalists Rogers McVaugh and Knut Faegri

The St. Louis Symphony Orchestra performed at the Opening Session.

Eight men and women were awarded Millennium Medals at the Opening Session, in honor of their lifetime achievements and contributions to science. Medals were presented to Knut Faegri, co-founder of the University of Bergen in Norway; Rogers McVaugh, author of the *Flora Novo-Galiciana* of western Mexico; and the renowned Mexican botanist Jerzy Rzedowski. Medalists who could not attend were Rupert Barneby of The New York Botanical Garden; Graziela Maciel Barroso, the "first lady" of Brazilian botany; John Harper, developer of plant population biology; C.T. Ingold, professor emeritus at Birkbeck College, University of London; and Alicia Lourteig, manager of New World collections at the Muséum National d'Histoire Naturelle in Paris.

Leadership for the Future

alone century or millennium as expensive in terms of biological loss as that which is now coming to a close," said David Brackett, chair of the IUCN Species Survival Commission.

NEW FOODS & MEDICINES

"Bitter Kola" Arrests Ebola Virus

A chemical from a plant commonly eaten in West Africa, Garcinia kola, *has stopped replication of the deadly Ebola virus in laboratory tests. It could lead to the first medicine to arrest the progress of the virus that causes the often-fatal Ebola hemorrhagic fever. Compounds from the plant have also been effective against some strains of the common flu virus.*

Testing of Garcinia kola, *also known as "bitter kola," began ten years ago, according to Maurice Iwu, director of the Bioresources Development and Conservation Program. Researchers were led to the wild tree by traditional native healers, who have used it for centuries to treat infectious diseases. "This is a very exciting discovery," Iwu said. "The same forest that yields the dreaded Ebola virus could be a source of the cure."*

New Rices May Reduce Disease

Researchers have succeeded in genetically modifying rice grains to improve the supply of iron and vitamin A in the human diet. Pending further testing, modified rices may help to reduce global rates of serious, often fatal deficiency diseases, especially in developing countries where rice is the major staple food. The research results were announced by Ingo Potrykus of the Institute for Plant Sciences at the Swiss Federal Institute of Technology.

According to UNICEF, iron deficiency anemia is the most common nutritional disorder in the world. Vitamin A deficiency is the leading cause of blindness in children in developing countries and is associated with a million childhood deaths a year.

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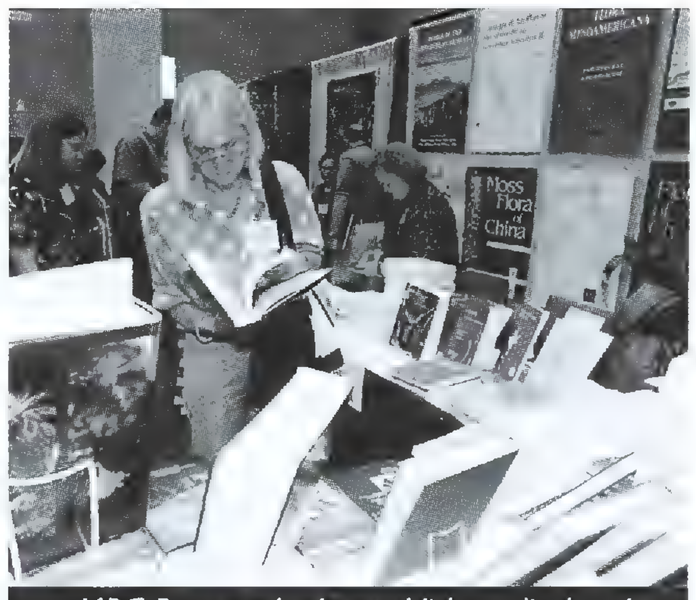
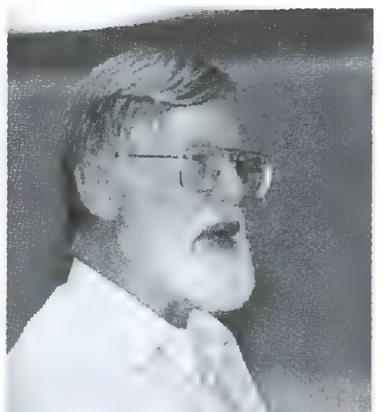
Scientists gathered to discuss recent research.



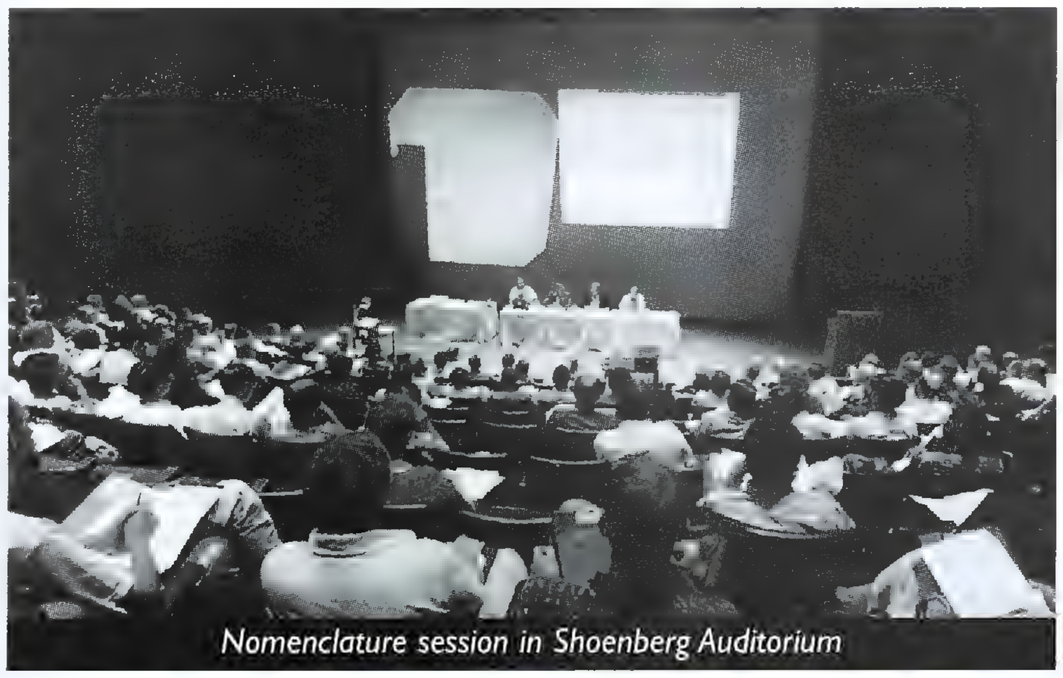
MBG Press and other publishers displayed the latest publications.

Presentations on the latest research attracted botanists from all over the world.

José Sarukhán



Sir Ghillean Prance



Nomenclature session in Shoenberg Auditorium

Roger Beachy

At the closing session on Saturday, the Engler Medal in Gold was presented to Peter H. Raven for outstanding contributions in plant taxonomy by the International Association for Plant Taxonomy, IAPT.

The Congress convenes only once every six years and had not been held in the U.S. since 1969. Nomenclature sessions, where several hundred botanists met to resolve issues about naming and classifying plants, were held at the Garden the week preceding the Congress.

In Recognition of Excellence

New Technique for Drug Discoveries

Chemical triggers are being used to elicit biologically active compounds from plants, a technique compared to irritating an oyster to make a pearl. It substantially improves current methods for testing plants for compounds that may be potential sources of new drugs. The new technology was announced by Ilya Raskin of Rutgers Biotech Center.

PLANTS & THE PAST

Redrawing the "Tree of Life"

Plants are really four separate kingdoms, fungi are more closely related to animals than plants, and all green plants now on land are decended from a common freshwater ancestor, not from sea plants as previously believed.

These startling conclusions were announced by a team of 200 scientists from 12 countries, who presented the results of a five-year project to reconstruct the evolutionary relationships among all plants. The study has produced the most complete picture of any group of living things on the planet. "Better understanding this 'tree of life' will allow scientists to better predict the biological properties of plants," said Brent D. Mishler of the University of California, Berkeley.

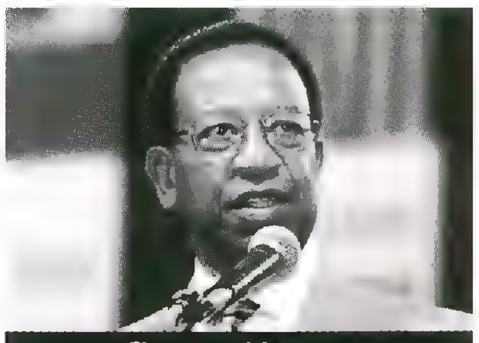
New Evidence on the Shroud of Turin

An analysis of pollen grains and plant images places the Shroud of Turin, thought by many to be the burial cloth of Jesus of Nazareth, in Jerusalem before the 8th century. The authenticity of the Shroud has been debated for centuries, with some studies attributing it to the Middle Ages.

Botanist Avinoam Danin of The Hebrew University of Jerusalem presented results of his research on the Shroud at a lecture at the Garden during the Congress. A review of the plant and pollen evidence will be published this year by MBG Press as Flora on the Shroud of Turin *by Danin, Alan Whanger, Mary Whanger, and Uri Baruch.*

Peter Raven receiving the Engler Medal from Tod Steussy, secretary of the International Association for Plant Taxonomy

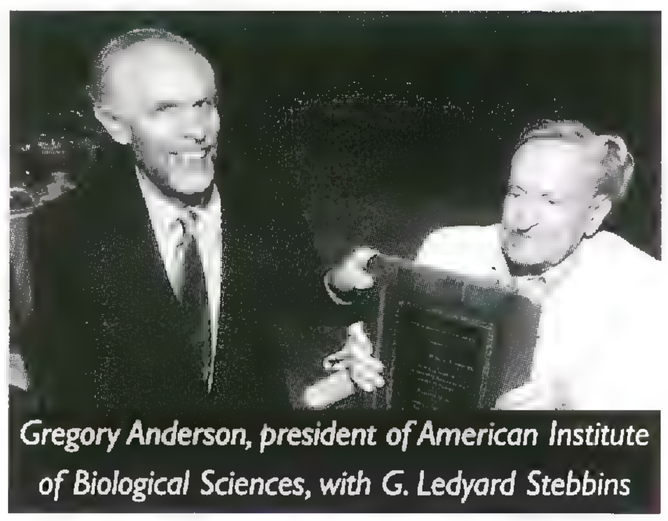
Mary Ann and Des Lee, MBG Trustee, with Richard Fleming, president of the RCGA



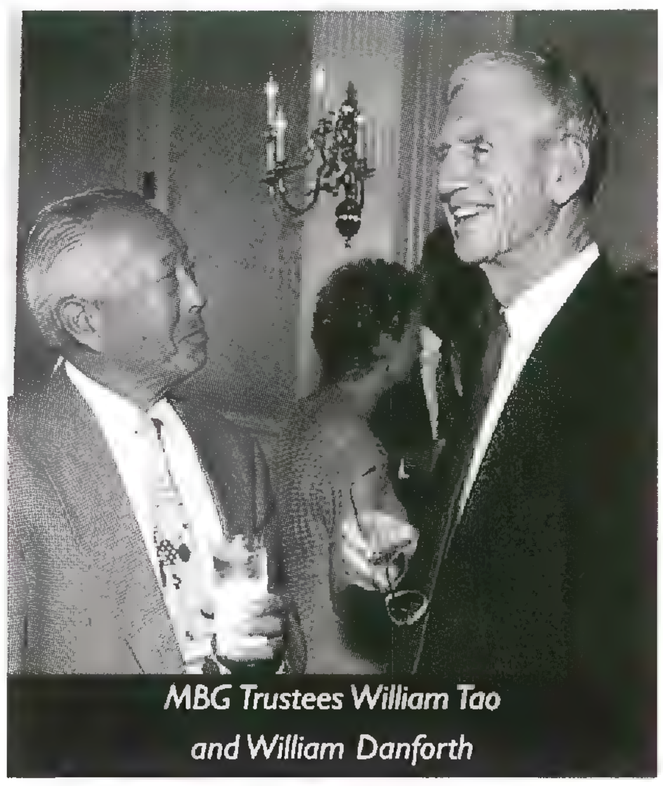
Clarence Harmon, Mayor of St. Louis

Brigette Zimmer and Werner Greuter were honored as retiring officers of IAPT

The next International Botanical Congress will be held in Vienna in 2005.



Gregory Anderson, president of American Institute of Biological Sciences, with G. Ledyard Stebbins



MBG Trustees William Tao and William Danforth

Missouri Governor Mel Carnahan addressing the Opening Session

Flags of all nations where the IBC has met in this century set the stage.

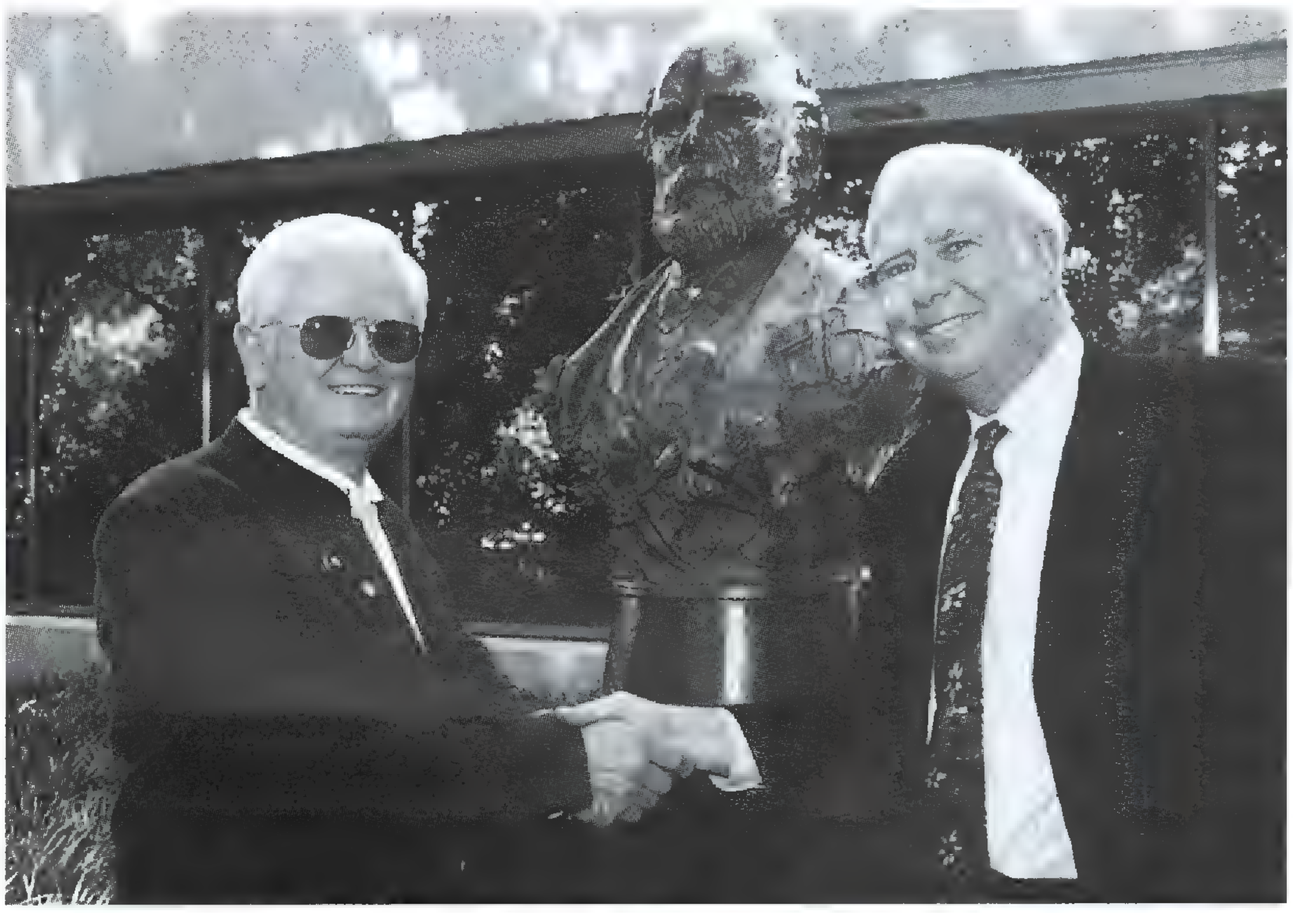
Gifts & Grants

Groundbreaking for Strassenfest German Garden

GROUNDBREAKING for the new Strassenfest German Garden was celebrated at a ceremony on July 26. The new display is being built on the south side of the John S. Lehmann Building, linking the area south of Tower Grove House to the English Woodland Garden. It is made possible by the generosity of the St. Louis Strassenfest Corporation.

A bronze bust of Dr. George Engelmann will be a feature of the new garden. Engelmann, a German physician who immigrated to St. Louis in the 1830s, was a noted botanist and served as a scientific advisor to Henry Shaw. The bust, by sculptor Paul Granlund, features some of the new species of plants described by Engelmann or named for him, including conifers, cacti, and grapes.

The annual Strassenfest in St. Louis is the largest German festival in mid-America. More than 65 non-profit organizations participate each year.



TIM PARKER

Michael Wendl, president of the St. Louis Strassenfest Corporation (left), with Peter Raven and the bronze bust of George Engelmann. Raven paid tribute to the rich cultural heritage contributed to St. Louis by German immigrants and their descendents.

Free Seminar

Socially Responsible Investing — *You Don't Have to Sacrifice Profits for Principles*

Socially responsible investing offers you the opportunity to meet your financial goals in a manner consistent with your ethical and social concerns. Our guest speaker, Laura Wolf, will discuss the benefits and misconceptions of Social Awareness Investment and how investments can support your values. Nancy Dilley will join the program to discuss ways to achieve your personal and philanthropic financial goals.

Please choose one:

Tuesday, October 5
1:30 to 3 p.m.
Join us for the Seminar, followed by a Tram Tour of the Garden.

Wednesday, October 6
7 to 9 p.m.
Join us for a Reception, followed by the Seminar.

Featured Speakers:

Laura Wolf – **Managing Director of Smith Barney Asset Management, New York**
Nancy J. Dilley – **Estate Planning Attorney and Partner, Gallop Johnson and Neuman LC, Clayton, Missouri**
Judy Holt – **Financial Consultant, Salomon Smith Barney, Clayton, Missouri**
Ellen Jaffee – **Financial Consultant, Salomon Smith Barney, Clayton, Missouri**

Laura Wolf, managing director of Smith Barney Asset Management

Admission to the seminar is free, for Garden members and their guests.
For further information or to make reservations, please call Judi Schraer at the Garden by September 20 at (314) 577-9455.
The seminar is co-sponsored by the Missouri Botanical Garden and Salomon Smith Barney.

Grasses

Gorgeous mounds of color and texture, almost overnight

by Katie Belisle-Iffrig, Re. D., horticulture program coordinator

INSTANT GRATIFICATION IS NOT USUALLY ASSOCIATED WITH GARDENING, so it may come as a pleasant surprise when you plant a tuft of grass and it turns into a mound of gorgeous foliage, seemingly overnight.

As this summer's drought has demonstrated, ornamental grasses are among the true low maintenance perennials. As native prairie plants, they thrive in dry conditions. And what else will fill a barren landscape with lush greenery so quickly?

Border Plantings

In a perennial border, grasses add volume and color before and after the blooming season. For early spring, try cool-season types such as bulbous oat grass, *Arrhenatherum elatius* var. *bulbosum* 'Variegatum', fescues, *Festuca* spp., and blue oat grass, *Helictotrichon sempervirens*. Feather reed grasses, *Calamagrostis* spp., are cool-season species that stay showy throughout the year.

For the late summer and fall garden, many warm-season grasses add dimension and color. The genus *Miscanthus* includes some of the showiest of the warm-season flowering grasses.

Fountain grasses, *Pennisetum* spp., are particularly useful for midwestern perennial borders, especially the compact cultivars *Pennisetum alopecuroides* 'Little Bunny' and 'Hameln'.

Many new cultivars of the tall native prairie switch grass, *Panicum virgatum*, are being bred for foliage color, habit and bloom time. Switch grass gives a wonderful softening effect in the mid-border. Other attractive native ornamental grasses include wild sea oats, *Chasmanthium latifolium*, little bluestem, *Schizachyrium scoparium*, and Indian grass, *Sorghastrum nutans*.

Screening

Grasses can create a year-round screen that gives a sense of privacy to the garden. Giant reed grass, *Arundo donax,* performs wonderfully as a screen, reaching twelve to fifteen feet in height in a single season. Big bluestem, *Andropogon gerardii,* and Japanese silver grasses, *Miscanthus sinensis*, are also exceptional for developing a tall screen. Fountain grass, *Pennisetum alopecuriodes,* switch grass, *Panicum virgatum*, and feather reed grass, *Calamagrostis* × *acutiflora* 'Karl Foerster', work well as intermediate screens and background plantings.

Ground Covers

Many ornamental grasses make superb ground covers, ranging in height and texture from the low, fine mounds of blue fescue, *Festuca glauca*, to the airy seed heads of prairie dropseed, *Sporobolus heterolepis*. In addition, many shade-loving grasses and sedges, *Carex* spp., are evergreen, making them excellent choices for ground covers.

In areas where erosion control is a concern, ribbon grass, *Phalaris arundinacea* var. *picta*, and giant blue wild rye grass, *Elymus racemosus* 'Glaucus', are aggressive plants suitable for stabilizing sandy banks.

Containers

Annual grasses are particularly suitable for container plantings. The deep maroon-purple curving leaf blades of annual fountain grass, *Pennisetum setaceum* 'Rubrum', make a striking, graceful display. The wispy violet panicles of muhly grass, *Muhlenbergia capillaris*, appear as clouds of purple over the foliage, while the yellow-variegated leaves of St. Augustine grass, *Stenotaphrum secundatum* 'Variegatum', cascade over the sides of planters.

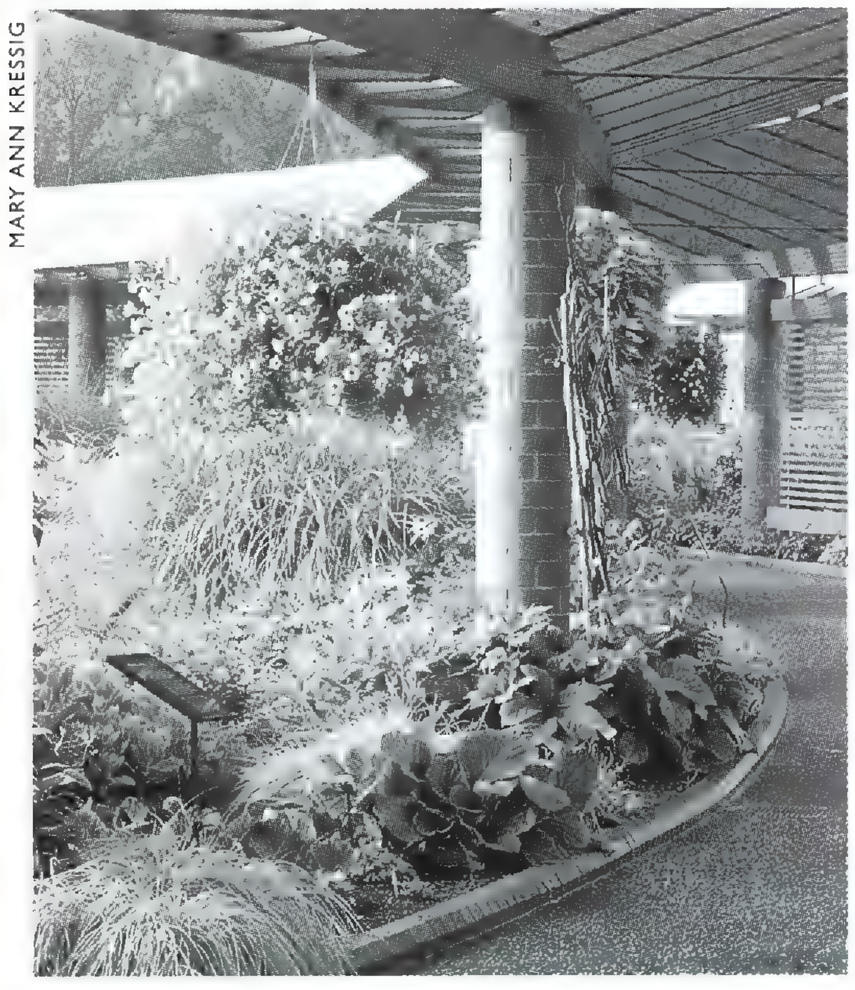
Water Gardens

The dense root systems of ornamental grasses are effective in binding the soil at the edges of streams and ponds, and the foliage provides a lovely backdrop against the water. Try prairie cordgrass, *Spartina pectinata*, and ribbon grass, *Phalaris arundinacea* var. *picta*.

Rushes and sedges also provide interest in the water garden. Attractive species include yellow sedge, *Carex elata* 'Bowles Golden', umbrella sedge, *Cyperus alternifolius*, silver variegated Japanese sedge, *Carex morrowii* 'Variegata', and corkscrew rush, *Juncus effusus* 'Spiralis'.

Rock Gardens

Many smaller species of ornamental grasses make excellent additions to the rock garden. Mosquito grass, *Bouteloua gracilis*, side oats grama, *Bouteloua curtipendula*, dwarf fountain grass, *Pennisetum alopecuroides* 'Little Bunny', and the *Festuca* species are good choices for the lighter, well-drained soils of rock gardens.



MARY ANN KRESSIG

See ornamental grasses and learn about them at the William T. Kemper Center for Home Gardening.

What's Coming up At the Kemper Center for Home Gardening

Fall Planting – It's Not Just for Bulbs Anymore!

Don't Miss the Fall Plant Sale, September 15–19, in the Garden Gate Shop. See page 14.

Autumn is a great time to plant most trees and shrubs, with the notable exceptions of magnolias, dogwoods, birches, and redbuds. To ensure a good start, just be sure to water new plantings until first frost. Fall is also a good time to broadcast wildflower seeds, which require winter's chill to germinate. Early fall is a great time to divide and plant in perennial beds, too. Keep them watered and cover with a two-inch layer of leaf mulch to protect roots during the winter.

New Adult Classes at New Locations — There's Still Time to Sign Up

This fall the Garden is offering courses for adults at four locations around town: St. Charles, Ballwin, Mehlville, and the City Museum, as well as at the Kemper Center for Home Gardening. There are lots of exciting new opportunities, including five new classes being offered for the first time at the Litzsinger Road Ecology Center. See the brochure mailed recently to all members.

Plastic Pot Recycling – It's a Winner

Our thanks to all who supported and participated in the plastic pot collection during the hot Saturdays of July. We collected a total of 42,600 pounds of plastic, 12,600 pounds more than last year!

Special thanks to staff and volunteers of Gateway Greening, Inc., who helped with the collection and salvaged about 15,000 pots for reuse next spring during the Great Perennial Divide, which supports urban gardeners.

The collected plastic is being recycled by Green Future, Inc. in East St. Louis, which uses it to make landscape timbers. For more information, please call the Kemper Center for Home Gardening at (314) 577-9440.

Tub Grinder Donated

The Garden and Tower Grove Park will share the use of a tub grinder to process leaves and other yard waste this fall, thanks to the generosity of Kirkwood Excavating. The company donated the machine, parts, and the services of a mechanic for the joint recycling project. The Garden and the Park began sharing the tub grinder about two years ago under a grant from the St. Louis-Jefferson County Solid Waste Management District, a division of the Missouri Department of Natural Resources. Grinding leaves and yard waste is a valuable source of compost and substantially reduces the amount of solid waste in landfills.

In Memoriam

MBG ARCHIVES

Howard F. Baer

Some of the splendid books and Chinese herbarium specimens acquired through the Howard F. Baer Memorial Library Fund.

Howard F. Baer Memorial Library Fund

A BEQUEST from the estate of the late Howard F. Baer, together with tribute gifts in his memory from family and friends, will support the acquisition and conservation of rare and valuable books for the Garden library. The fund will also support the purchase of valuable herbarium specimens from Chinese botanical institutions.

Howard Baer was a Garden trustee from 1960 to 1998 and a distinguished patron of the arts. The memorial fund will make it possible for the Garden to acquire and restore items to complete its outstanding collections of books and Chinese herbarium specimens. Many of the books are rare and difficult to obtain, and some are illustrated with exquisite hand-colored lithographs.

JACK JENNINGS

Entrance Garden Named for Harrises – The lovely dry garden at the entrance to the Japanese garden has been named in honor of Whitney Harris and the late Jane Freund Harris, in recognition of a generous bequest from Mrs. Harris. Jane Harris, who passed away earlier this year, was the first president of the Women's Association of the Japan America Society and helped to raise the funds for the construction of the Japanese garden, *Seiwa-en*. The dry garden features a stone lantern that was exhibited at the 1904 St. Louis World's Fair.

Party for Brick Donors

October 7, 1999 • 5 to 7 p.m.

Order Your Brick Today!

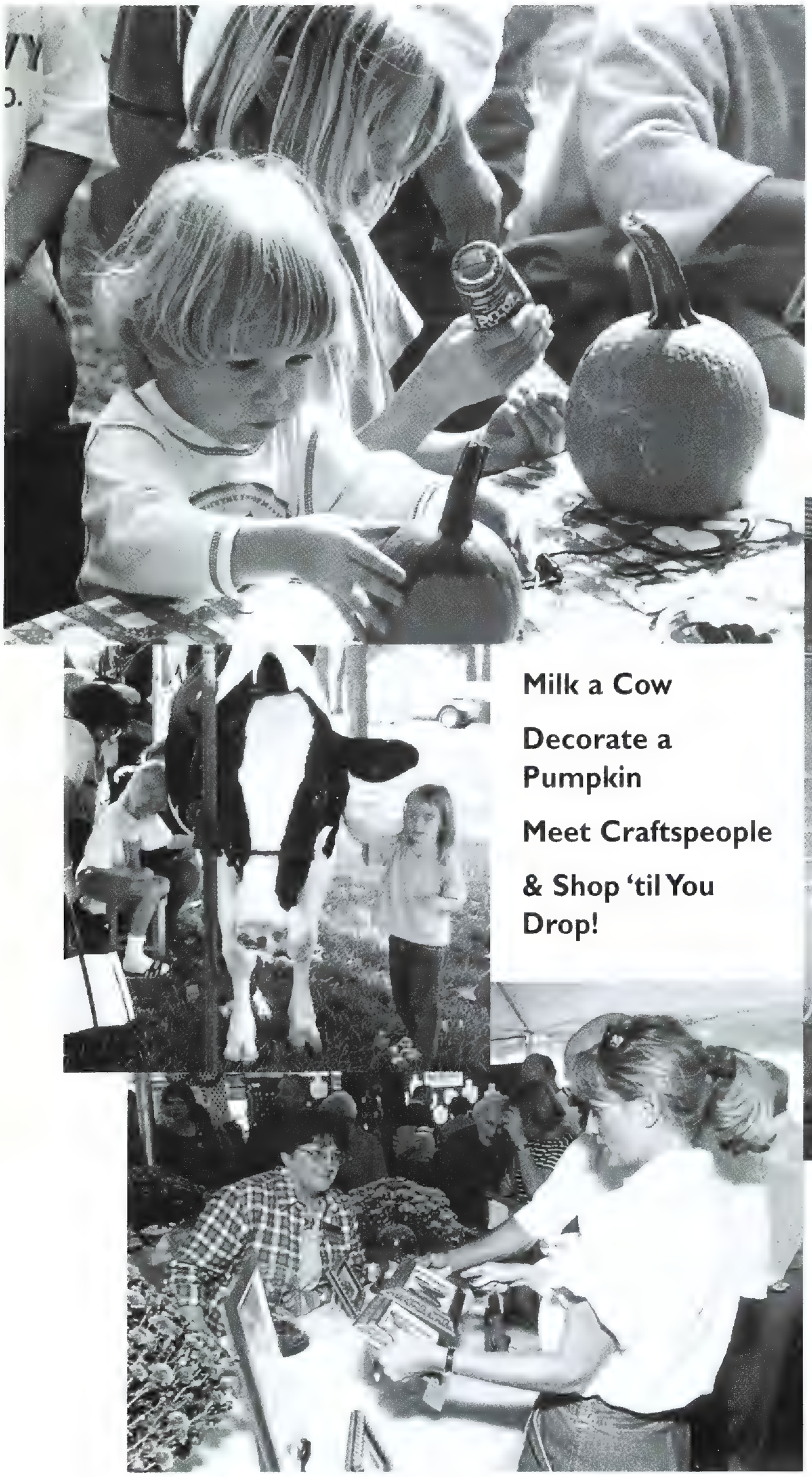
Be part of our festive annual celebration for donors who have given bricks in the Members' Entry Court at the Kemper Center since last year's party. All brick donations support the Garden.

- **Engraved Clay Bricks – $300 each**
- **Bronze Signature Bricks – $1,000 each**
- **Up to 28 characters may be engraved on each clay brick — names only, please. We cannot accommodate dates or sentiments.**
- **Payment may be made by cash, check, or MasterCard/Visa.**

Order forms are available at the Membership Services Desk in the Ridgway Center, at the Kemper Center, or you may call the Development Office at (314) 577-9495. Bricks ordered after September 10, 1999, cannot be installed in time for the party on October 7, but of course all donors are welcome to attend the party. Order your brick today!

Calendar of Events

Sept. & Oct.



BEST of MISSOURI MARKET

Milk a Cow

Decorate a Pumpkin

Meet Craftspeople

& Shop 'til You Drop!

October 2 & 3, 1999

See page 16

September & October Events

Fall Plant Sale & Bulb Extravaganza

Members Take 20% OFF All Five Days

In the Garden Gate Shop and Orthwein Floral Display Hall..

Free with Garden admission or membership.

September 15 Wednesday

Member's First Choice Sale

5:30 to 7:30 p.m. Refreshments will be served. MBG Horticulture staff and St. Louis Master Gardeners will be on hand to answer questions. Free, for members only.

September 16 & 17 Thursday & Friday

Members' Preview Days

9 a.m. to 6:30 p.m. both days. Master Gardeners will be available.

September 18 & 19 Saturday & Sunday

Sale Opens to the Public

9 a.m. to 5 p.m. both days.Master Gardeners will be available.

September 1–8

Exhibit: Contemporary Decorative Arts of Japan

9 a.m. to 5 p.m. daily, Monsanto Hall.

September 4–6
Labor Day Weekend

23rd Annual Japanese Festival

Sat. & Sun.: 10 a.m. to 10 p.m. Monday: 10 a.m. to 5 p.m. Featuring Zendeko Taiko of Los Angeles, plus dance, music, arts & crafts, cooking demonstrations, tea ceremonies, candlelight walks, and more. $6 adults, $4.50 seniors, $2 members, free to children age 12 and under. 24-hour Festival Hotline: 577-9400 or 1-800-642-8842.

September 11 & 12
Saturday & Sunday

Gardeners of America Show

Sat. noon to 5 p.m., Sun. 9 a.m. to 5 p.m. Orthwein Floral Display Hall. Free with Garden admission or membership.

September 12 Sunday

Chefs in a Garden

6 to 9 p.m. Chefs from ten of the finest restaurants in St. Louis create innovative fare using produce grown by community gardeners. $100 per person, to benefit Gateway Greening, Inc. Call (314) 577-9484 for tickets.

September 16 – November 12

Exhibit: "The Prairie Portraits"

9 a.m. to 5 p.m. daily, Monsanto Hall. Artist Lana Gits and photographer Larry Godson collaborated for seven years to create portraits of the plants and the ecosystem at Wolf Road Prairie Nature Preserve in Westchester, Illinois. A portion of profits from sales will be donated to Save the Prairie Society. Free with Garden admission or membership.

September 18 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop. For children ages four to ten. Listen to a story or two, make a fun project to take home, and learn about the world of plants. Parents are welcome to attend, and children under four must be accompanied by an adult. Free, no reservations.

September 18 Saturday

"Dances of India"

4 p.m., Cohen Amphitheater. Experience the exotic music and colorful costumes of India in an outdoor performance by this award-winning St. Louis dance troupe. Lawn seating only, so bring a blanket or lawn chairs. Free with Garden admission or membership.

September 18 – October 24

Wilderness Wagon Tours

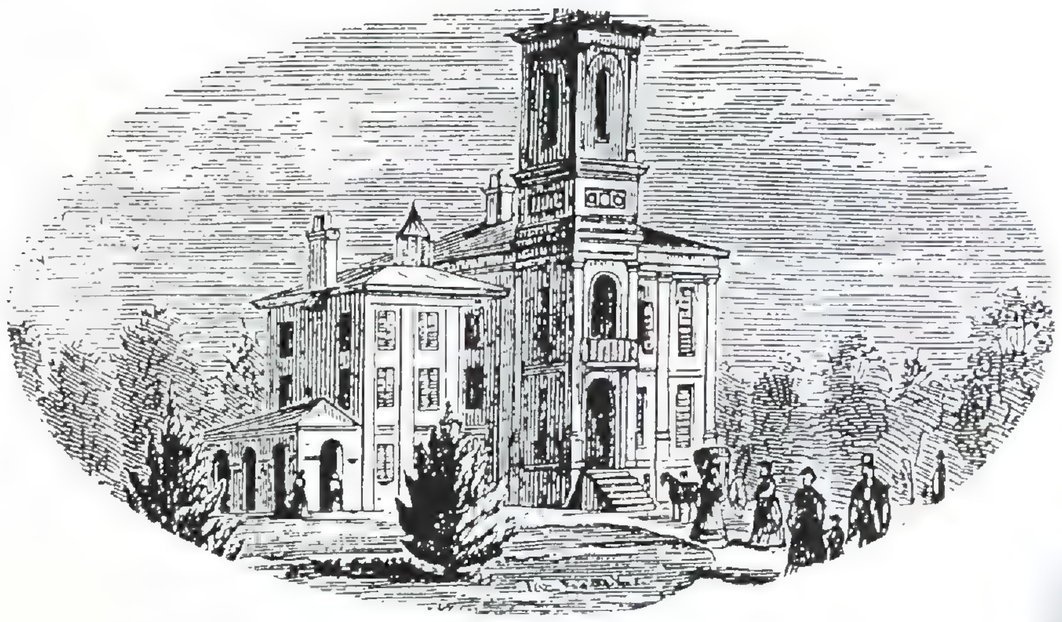
Noon to 3 p.m., Shaw Arboretum. Ride the Wilderness Wagon for a guided tour of the Arboretum, with stops at the Trail House and the Wetland. The Wagon leaves the Visitor Center on the hour. Free with Arboretum admission or membership.

October 13 – October 24

Dollhouses on Display

10 a.m. to 3 p.m. daily. Magnificent dollhouses and miniature rooms are on exhibit in Tower Grove House. Delight in the incredible detail and exquisite craftsmanship of these tiny masterpieces, including Mary Wickes's dollhouse, a replica of the Dream House Miniature Shop, a Tudor-style house, a Swiss chalet, an eight-room Mansard roof mansion, a large scale replica of Tower Grove House itself, and many, many more. Presented by Tower Grove House Auxiliary to benefit Tower Grove House. Admission to the House during the exhibition is $10 per person, which includes a beverage and dessert in the Gardenview Restaurant. Children must be accompanied by an adult.

September & October Events



MEMBERS DAY September 23 Thursday

"Shaw's Garden: A Step Back in Time"

11 a.m., Shoenberg Auditorium. Join Daryl Cimaglia, the horticulturist who plans and maintains the Kresko Family Victorian Garden, for a look at the Garden then and now. Stop by Spink Pavilion from noon to 2 p.m. and make a Victorian potpourri sachet to take home, then visit historic Tower Grove House for a tour of Henry Shaw's 1851 country home. Special tours of the Victorian Garden will be offered at 12:30, 1:00 and 1:30 p.m. Meet Garden Guides in front of the House near the statue of Henry Shaw.

MEMBERS DAY October 16 Saturday

Autumn at the Arboretum

10 a.m. to 1 p.m., Shaw Arboretum. Enjoy the glorious colors of autumn at Shaw Arboretumm in Gray Summit. Ride the Wilderness Wagon, with tours leaving every hour from the Visitor Center, beginning at 10 a.m. Stop at the Trail House for cider and cookies and an optional 30-minute guided hike. Also tour the Whitmire Wildflower Garden and visit the Bascom Manor House.

Members' Days are free, for Garden members and their guests. Receive free tram rides, extra discounts in the Garden Gate Shop, and 10% off in the Gardenview Restaurant.

September 25 Saturday

"Rhapsody in Bloom"

10 a.m. to 3 p.m. Classical music and ballet outdoors on the grounds, presented by Classic 99, KFUO-FM and the Garden. Free with Garden admission or membership.

September 25 & 26
Saturday & Sunday

Greater St. Louis Dahlia Society Show

Sat. noon to 5 p.m., Sun. 9 a.m. to 5 p.m., Orthwein Floral Display Hall. Free with Garden admission or membership.

October 6 Wednesday

Conservation Forum

5 to 10 p.m., The Living World, Saint Louis Zoo. The International Center for Tropical Ecology, the Garden, the Zoo, and the Missouri Chapter of The Nature Conservancy present the 3rd annual forum by leading St. Louis conservation organizations. Speakers include Dr. Meg Symington of World Wildlife Fund and Dr. Jonathan Losos, trustee of the Missouri Chapter of The Nature Conservancy. $7.50 per person. Supper available by advance reservation, $7.50 per person. Call (314) 516-6203.

October 16 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop. See September 18 for details.

October 16 & 17
Saturday & Sunday

Orchid Society of Greater St. Louis Show and Sale

Sat. 10 a.m. to 5 p.m., Sun. 9 a.m. to 5 p.m., Orthwein Floral Display Hall. Free with Garden admission or membership.

October 23 & 24
Saturday & Sunday

Mid-America Regional Lily Society Fall Bulb Sale

9 a.m. to 5 p.m. daily, Beaumont Room. Free with Garden admission or membership.

October 23 & 24
Saturday & Sunday

Gateway West Gesneriad Society Show and Sale

9 a.m. to 5 p.m. daily, Orthwein Floral Display Hall. Free with Garden admission or membership.

October 24 Sunday

Arts & Treasures of Latin America: Mexico 1999

Our second annual celebration of Latin American culture celebrates Mexico. Artists and craftspeople demonstrate ceramics, paper flowers, wood carving, and piñatas. Mariachi music, dancers in festive traditional costumes, exhibits, food, and more. Free with Garden admission or membership.

October 28 Thursday

"A Place to Remember"

7 p.m., Shoenberg Auditorium. Robert Archibald, president of the Missouri Historical Society, will present a lecture inspired by his new book, *A Place to Remember: Using History to Build Community.* Following the lecture, Mr. Archibald will sign books at a reception in Monsanto Hall.

Walking Tours led by Garden Guides – 1 p.m. daily.

Eco-Cart Demonstrations – Every Saturday from 11 a.m. to 3 p.m. in the Brookings Interpretive Center.

8TH ANNUAL

Best of Missouri Market

October 2 & 3, 1999

Saturday & Sunday, 9 a.m. to 5 p.m.

Members' Early Bird Shopping:
Saturday morning, 7 to 9 a.m., for Garden members only!

Market Admission *(Includes Garden admission): $2 Members; $5 adults; $3 seniors age 65 and over; children 12 and under free.*

Sponsors:

Bank of America • Coca-Cola • Commerce Bank • GrandPa's KMOX • MasterCard • Clifford Willard Gaylord Foundation St. Louis County Farm Bureau • *AgriMissouri*

Crafts

Bird Feeders & Cockscomb Topiaries
Clay Animal Flutes
Hand-woven Rugs & Purses
Wind-powered Garden Sculptures
Cannery Oil Candles
Corn and Corn Husk Items
Pottery Imprinted with Leaves
Willow Furniture

Cooking Demonstrations

Straub's • Gourmet to Go

Food Court

Barbeque
Brats & Hotdogs
Homemade Salads
Jumbo Pretzels
Soft Drinks & Beer

Kids' Corner

9 a.m. to 5 p.m.
Cohen Amphitheater
Alpacas
Butterfly House
Clydesdales
Decorate a Pumpkin
Hallmark Kaleidoscope
Mizzou Barnyard
Milk-a-Cow Booth
St. Louis Train Society Exhibit
Zuma Beed

Other Displays

Agricultural & Environmental Exhibits

Specialty Growers

Maxwell Homestead
Sugar Creek Gardens

33 New Vendors!

Entertainment

Saturday: The Orbits, 12:30 to 3:30 p.m.

Sunday: The Hayshakers, 12:30 to 3:30 p.m.

Foods & Produce

Candies • Cider
Fruit • Giift Baskets
Herbs • Honey
Homemade Pies
Meats • Mushrooms
Preserves • Popcorn
Relishes • Salad Dressings
Sauces & Salsas
Wines
& Much More

Entrances

Enter at Spink Pavilion on Tower Grove or at the main entrance on Shaw Boulevard, where there will be direct access to the vendors' area from the parking lot. Additional parking will be available at Mullanphy School at 4221 Shaw and in Tower Grove Park. Shuttle runs continuously between the Park and the Garden. For more convenient parking, arrange a car pool or use MetroLink and the new Garden Express shuttle.

BEST of MISSOURI MARKET ®

ALSO October 2 & 3 • 10 a.m. to 5 p.m.

The Historic Shaw Art Fair

Presented by the Shaw Neighborhood Improvement Association along Flora Place, one of the city's most historic and beautiful areas, right across the street from the Garden. Artists compete in a juried show for $3,500 in prizes. Works include painting, sculpture, drawings, photographs, prints, ceramics, textiles, glass, wood, jewelry, and mixed media. Admission: $3 adults, $2 for visitors to "Best of Missouri" Market.

Members

Past Presidents of the Members' Board

Mrs. Charles W. Oertli

SUE OERTLI has been a member of the Garden for more than 30 years. In 1977 she was invited to join the Members' Board, and served as its president from May 1985 to December 1987.

From 1983 to the beginning of her presidency, Sue was closely involved with the launch of the Membership Services and Information Desk in the Ridgway Center and served as its first chairman. "In the beginning," she said, "we started with ten volunteers, a table, and a checked table cloth! We got a permanent desk in the spring of 1985."

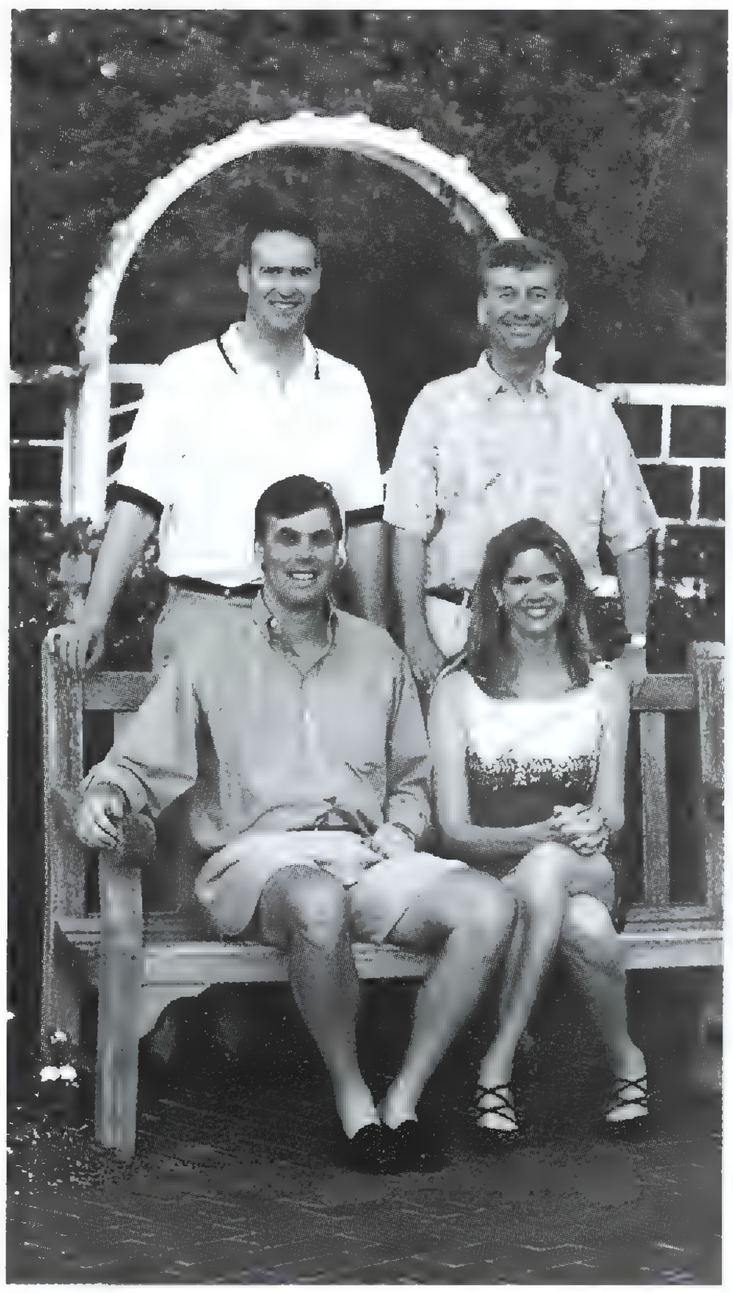
The Membership Desk is one of the Board's greatest achievements, greeting visitors and selling thousands of memberships each year. Sue, who still volunteers at the desk, says, "It's exciting to see how it has become such an important service to our members."

While Sue was president, the Board sponsored the Climatron's 25th anniversary party in 1985, featuring the "Pane Game." In 1986 they launched the first St. Louis Garden Tour, and Sue has organized the busses for each subsequent tour. In 1987 the Board offered "A Rare Opportunity," a sale and auction of some of the Garden's rare and valuable plants from the old greenhouses.

Also in April 1987, the Membership program achieved an important milestone with 20,000 members.

Like most past presidents of the Board, Sue continues to be active at the Garden. She also serves on the Board of Friends of Tower Grove Park and heads their docent program. Her interest in St. Louis history comes naturally. Sue's mother created a popular lecture on the St. Louis World's Fair, using photographs taken by Sue's grandfather, and today Sue carries on the tradition. She also gives tours of St. Louis for visitor groups.

TIM PARKER



Shown at the party (standing, from left): Drew Luning and Andy Dielmann. Seated: Rich George and Anne Suppiger, co-chairs.

"Temptation in the Garden"

THE SUMMER BASH WAS A SMASH, as the Young Friends of the Garden welcomed 286 guests to "Temptation in the Garden" on July 17. Twenty-nine new memberships were sold at the party.

Our thanks to sponsors for the evening: Anheuser Busch, Earthgrains, Edward Jones, Hereford Printing, Lohr Distributing Co., and The River 101-FM. For information on future Young Friends events or memberships, call (314) 577-9500.

Save the Date
Wednesday, October 27

"A Garden of Gems"

YOU ARE CORDIALLY INVITED to a lovely autumn evening to benefit the Missouri Botanical Garden, featuring cocktails, hors d'oeuvres, and beautiful jewelry creations. Sponsored by the Garden and Antoinette's Jewelry, 9793 Clayton Road. Tickets start at $30 per person. Please call for reservations by October 19 at (314) 577-9500.

BIRDBATH GIVEN IN MEMORY OF MARY PHELAN — A beautiful stone birdbath has been placed in the English Woodland Garden in loving memory of Mary Phelan, 1961-1998, by her family and friends. Mary was a member of the Garden Members' Board at the time of her death last year, and the English Woodland Garden was one of her favorite spots in the Garden.

Left: MBG botanist Roy Gereau and staff of The National Herbarium of Tanzania conducting a workshop in plant identification for local plant collectors and herbarium technicians.

Below: David Neill (left) and colleagues in Ecuador display a new genus they discovered.

Right: A teacher at the Amazon Plant Conservation Center demonstrates the use of nitrogen-fixing trees to improve soil fertility.

Research & Conservation

Helping people learn to protect and manage their country's botanical resources.

THE AWÁ, an indigenous South American tribe, are fighting to preserve their home and their traditional way of life in the last virgin forest in western Ecuador. Living in intense poverty and facing pressure to open their land to commercial logging, the Awá turned to Ecuadorians trained by David Neill, the Garden's resident botanist in the country. They are using information from botanical research to create sustainable income from the plants on their reservation.

Developing countries have only about six percent of the world's scientists, but they have 80 percent of global population and 80 percent of all biodiversity. Missouri Botanical Garden researchers have been working with developing countries for many years to improve facilities and training at local botanical institutions.

The programs are designed to establish a group of people in each country with the skills and experience to assume long-term responsibility for the study, protection, and rational use of their botanical resources. The Garden currently has successful programs in Madagascar, Tanzania, Ecuador, and Bolivia, and more are planned.

Garden botanists have been studying Madagascar's spectacular and poorly known flora for more than a decade. Working in collaboration with Malagasy institutions and with support from the John D. and Catherine T. MacArthur Foundation and the Claiborne/Ortenberg Foundation, they have developed a novel approach that serves as a model for other countries.

The Garden provides botanical training of immediate, practical use. Communication and collaboration are encouraged, and students are motivated by a sense of pride and purpose. Trainees go on to good jobs in local herbaria, eco-tourism, and conservation projects. Some continue to do botanical inventory work, and some come to the United States for graduate training.

Today the Garden and local institutions are using the capacity they have developed to do intensive, targeted studies of Madagascar's endemic species. The results are immediately useful to decision makers in natural resource conservation.

Results are immediately useful to decision makers in natural resource conservation.

The Garden's program in Tanzania, also funded by the MacArthur and the Claiborne/Ortenberg foundations, uses Madagascar as a model. Tanzania has the most diverse flora in tropical Africa. A strategy session sponsored by the Garden in 1995 was the first time that the country's

botanical community had ever had an opportunity to share ideas, needs, and concerns. Working together, the Garden and this group designed a program to build research capacity and train Tanzanians to apply the results to their conservation activities.

In just three years, the program has achieved remarkable success under the direction of Peter Phillipson of Rhodes University, South Africa. Seventeen young Tanzanians have been trained as field collectors, and herbarium personnel from the country's six major collections have received technical training. Just as important, the program is establishing collaboration and a sense of purpose among people who had been working in isolation.

In Ecuador, Garden botanist David Neill has been doing field research and botanical training for fifteen years. In 1991, with support from the Claiborne/Ortenburg Foundation, the Garden established the Amazon Plant Conservation Center, which provides training in sustainable agriculture for local farmers and education programs for children. At the National Herbarium in Quito, Neill gives on-the-job training in research and conservation techniques to young Ecuadorians. Last year the program was expanded with support from the Claiborne/Ortenberg Foundation to offer nine-month internships for recent graduates and study grants for undergraduates.

Neill says, "The Garden is the only institution in the world doing this kind of intensive conservation work, bringing together local residents, indigenous peoples, scientific institutions, and government agencies. By giving something back to the host countries, we further our botanical research and promote conservation and sustainability."

1999 Henry Shaw Medalists

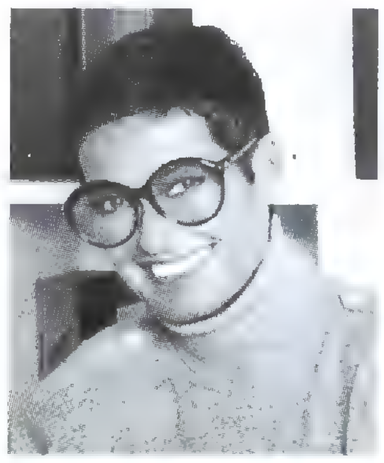
Liz Claiborne and Art Ortenberg

Dedicated to Conservation and Sustainability

ELISABETH CLAIBORNE ORTENBERG AND ART ORTENBERG, founders of Liz Claiborne, Inc., will receive the Henry Shaw Medal on Tuesday, September 28 at the annual Henry Shaw Dinner. It is the Garden's highest award.

The Liz Claiborne/Art Ortenberg Foundation was founded in 1984 and dedicated to promoting nature conservation that reconciles preservation with human needs. The Foundation supports solutions that directly benefit local communities and serve as exemplars for saving species and wildlands.

Since their retirement in 1990, Art Ortenberg and Liz Claiborne have devoted themselves to the conservation of plants and animals, and especially to building sustainable communities around the world.



In April 1989, Fortune magazine recognized the couple as chief executives of the highest ranking American corporation for return on investment from 1978 to 1988. Mr. Ortenberg, who has been widely honored for his achievements in business, is a senior conservationist of the Wildlife Conservation Society, a founder of the Friends of Montana, and has served on the boards of The Nature Conservancy, World Wildlife Fund, The Wilderness Society, and the Library of Congress. Ms. Claiborne has received international recognition for her achievements in business and fashion design. In 1995 she became a member of the Selection Committee of the National Parks Foundation.

Margaret Grigg Oberheide

PEG OBERHEIDE, a Trustee of the Missouri Botanical Garden since 1984, has supported the cultural life of St. Louis for 50 years. Her exceptional generosity and tireless service as a volunteer have motivated and encouraged the philanthropy of many others in the community.

Her gifts include Grigg Hall in the Ridgway Center, given in memory of her late husband, Hamblett Charles Grigg, and the magnificent Chinese garden, the Margaret Grigg Nanjing Friendship Garden, given in memory of her parents, Estelle and Robert Blanke. In 1997 she was named Outstanding Philanthropist of the Year by the National Society of Fund Raising Executives.

Research

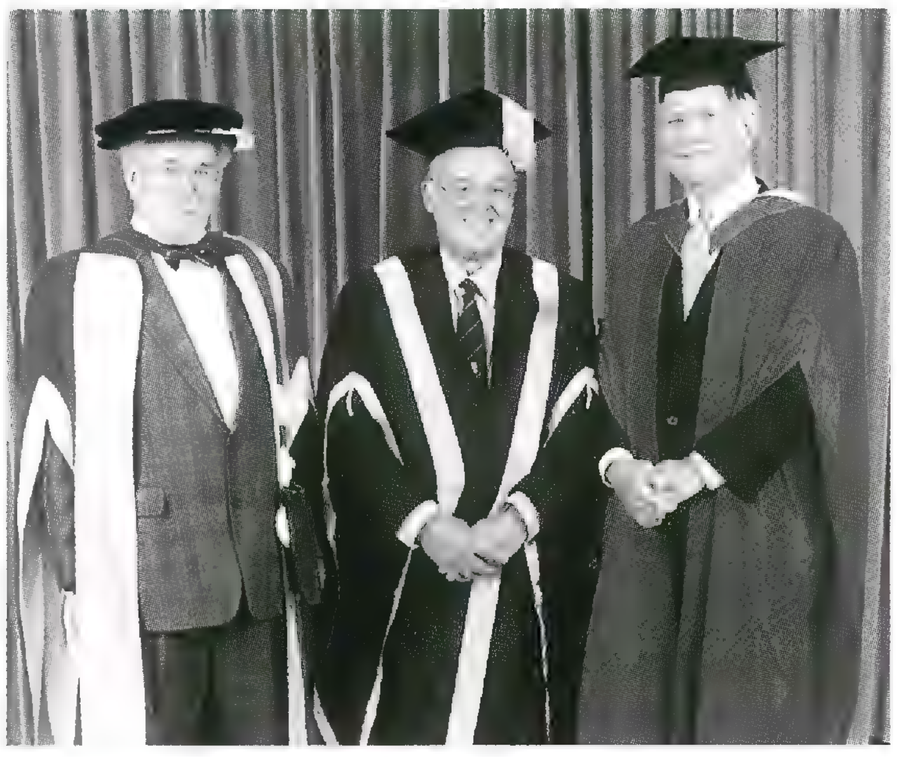
CLIFF WILLIS

Shown in the herbarium, from left: Dr. Marine Mosulishvili; Dr. Manana Khutsishvili; Dr. Giorgi Nakhutsrishvili, Director of the Institute of Botany in Tblisi; and Dr. Tatyana Shulkina.

Visitors from Republic of Georgia

The Garden has begun a new cooperative research program with the Institute of Botany of the Georgian Academy of Sciences in Tbilisi, the capital of the Republic of Georgia. The country is part of the ancient Caucasus region bordering on the Black Sea, Turkey, Russia, and Azerbaijan. Its flora is the richest and most diverse in the region, but until recent years, western botanists had very little opportunity to study its plants. Several Garden botanists have collected in Georgia with assistance from the Institute.

In April three scientists from the Institute visited the Garden to work with the TROPICOS database, use the library, and consult with colleagues. Their visit was part of a collaborative project to prepare a computerized checklist of the plant species of Georgia. Tatyana Shulkina of the Research Division, who has collected throughout the territories of the former Soviet Union, acts as liaison with our Georgian colleagues.



UNIVERSITY OF SHEFFIELD HONORS RAVEN — The Faculty of Pure Science at the University of Sheffield, England, awarded an honorary degree to Peter H. Raven on July 21, 1999 during the University's annual Degree Congregation. Sheffield was the birthplace of Henry Shaw, founder of the Missouri Botanical Garden. Shown at the ceremony (from left): The Public Orator, Professor C.J.M. Stirling; The Vice-Chancellor, Gareth Roberts; and Dr. Raven.

Twisselmannia — A New Genus from California

AN ENTIRELY NEW PLANT GENUS and species has been discovered in the United States by Ihsan Al-Shehbaz, a curator in the Garden Research Division. *Twisselmannia californica*, a diminutive golden-petalled annual herb from the mustard family, Brassicaceae, went unnoticed beside a highway in California until it was collected by Ed LaRue in 1994.

Twisselmannia californica

Scientists estimate that a thousand unknown plant species await discovery in the United States alone.

It might have been overlooked except for the sharp eyes of Dr. Al-Shehbaz, who realized its significance while studying specimens left by the late Reed Rollins, an expert in mustard taxonomy. The fruits of *Twisselmannia californica*, known as "Kings Gold," resemble those of the common shepherd's purse, *Capsella bursa-pastoris*.

Dr. Al-Shehbaz quickly described and illustrated the new species, which is so noteworthy that it represents an entirely new genus. It was published in 1999 by the Garden journal *Novon*. The scientific name honors the late Ernest Twisselmann, 1917-1972, a Californian rancher and botanical explorer.

Twisselmannia californica is rare and endangered by the impending development of the private property where it was discovered. Alerted to its presence, California botanists Dean William Taylor and Barbara Ertter revisited the location in March and found several more plants in bloom.

Ertter and other scientists estimate that a thousand unknown plant species await discovery in the United States alone.

—Victoria C. Hollowell, Ph.D., scientific editor, MBG Press

Herbarium Workshop

Ensuring that countries with the most diverse floras have the ability to study and manage them.

TIM PARKER

Working with plant specimens in the Garden herbarium are (from left): Richard Randrianaivo from Madagascar, Sylva Koemar from Suriname, Stephan Rakotonandrasana from Madagascar, Heidi Schmidt of the MBG Research Division, and Sennan Randrianasolo from Madagascar.

LAST MAY AND JUNE, five botanists from Ghana, Madagascar, and Suriname visited the Garden for training in management of herbarium collections, including processing, organizing, and maintaining herbarium specimens. Funding was provided by one of the Garden's collaborative bioprospecting projects with their respective countries.

Through programs like these, the Garden works to improve research capacity in the tropics and ensure that countries with the most diverse floras have the ability to study and manage them. The workshop was part of the Garden's commitment to providing professional development opportunities for its collaborators.

As one of the world's leading centers for collecting plants with potential as future drugs or foods, the Garden has consistently taken the lead in establishing and implementing the highest ethical standards in its bioprospecting programs. It is committed to ensuring that bioprospecting provides lasting benefit to the countries that supply the raw materials for research.

Volunteers

Volunteer Evening

Honoring Extraordinary Accomplishment

IN 1998, 1,053 volunteers gave 79,644 hours of service at the Missouri Botanical Garden. The extraordinary contribution of all our volunteers is celebrated each year at Volunteer Evening, and a few individuals are singled out for special awards.

Peter Raven said, "The calm, serene atmosphere at the Garden belies the consistent hard work of the volunteers and staff behind the scenes. We work at a fast and furious pace to achieve and to promote inquiry and understanding. We know that our mission is central to the welfare of our children and grandchildren, and we are keenly aware of how our day-to-day work relates to our commitment."

VOLUNTEER AWARDS FOR 1999

Special Achievement	Alan Stentz, Kemper Center
Extra Service Hours	Mary Jane Kirtz, Education
Career Service	Jean Crowder, Development
	John Stephens, Horticulture
Commitment Award	Margaret Hartung, Research
Organization Award	MBG Daylily Society

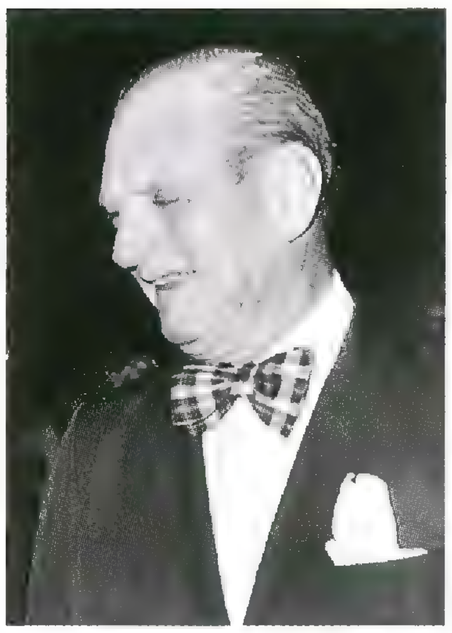
TIM PARKER

Award winners at Volunteer Evening (from left): Chick Beuhrig of the MBG Daylily Society, John Stephens, Peter Raven, Mary Jane Kirtz, Margaret Hartung, Mirko Bolanovich of the MBG Daylily Society, Jean Crowder, and Alan Stentz.

News of Note

In Memoriam

Henry Hitchcock



MISSOURI BOTANICAL GARDEN ARCHIVES

HENRY HITCHCOCK, a trustee of the Missouri Botanical Garden since 1947, died June 3, 1999 at his home in Arizona. He was 92.

For more than a century, three generations of the Hitchcock family served on the Garden's Board. Henry Hitchcock II, Mr. Hitchcock's grandfather, was one of the original 12 trustees of the Garden appointed by Henry Shaw. He served until his death in 1902 and was followed by his son, George C. Hitchcock, who was on the Board for 44 years, retiring in 1947. Henry Hitchcock was elected to the Board that same year, succeeding his father. He was named a trustee emeritus in 1974.

All three Hitchcocks were officers of the Board. Henry Hitchcock II was vice-president; his son and grandson both served as president. Henry Hitchcock was president from 1962 to 1967 and also served as acting director of the Garden from 1963 to 1965. In 1990 he was awarded the Henry Shaw Medal, the Garden's highest honor.

During his term as president of the Board, the Garden developed the plan calling for construction of a new research and education facility, now the John S. Lehmann Building. In 1967, the final year of his presidency, the Garden recorded a balanced budget for the first time in its history.

Henry Hitchcock's heritage of service to the Garden was characterized by extraordinary dedication and generosity. He will be deeply missed.

JACK JENNINGS

SHEEP FAMILY IS ADOPTED – A new viewing area will be installed soon near the Kemper Center for Home Gardening. Visitors will be able relax on benches while enjoying the sculptures of a ram, ewes, and lambs grazing on the lawn. The installation is a gift from Donald Soffer and family, who adopted the sheep family as a gift in memory of his wife, Pearl G. Soffer.

TIM PARKER

GOVERNORS' SPOUSES VISIT THE GARDEN As part of the 91st annual meeting of the National Governors' Association held in St. Louis in August, spouses of governors from 31 states visited to the Garden. Mr. and Mrs. H.T. Bush acted as hosts. Following a luncheon, the guests boarded trams for a tour of the grounds.

New Weekend Guides Needed

If you love to visit the Garden but have limited time during the week, consider volunteering as a weekend guide. You will learn about plants, ecology, history and displays at the Garden, then lead public tours for children and adults. Weekend Guides volunteer one or two days per month, year-round. A new training class begins in late September. For more information call Julie Knobbe, coordinator of school programs, at (314) 577-0226.

TRIBUTES
MAY – JUNE 1999

IN HONOR OF

Mrs. Jeanne Ansehl
Mr. and Mrs. Leslie Loewe
Mr. and Mrs. Herbert M. Talcoff
Mr. and Mrs. William Armstrong
Dr. and Mrs. Stephen F. Bowen, Jr.
Mrs. Dorothy Beezley
Ms. F. Beezley
Miss CeCe Benoist
Mrs. Jean-Jacques Carnal, Sr.
Mr. Kevin Bielik
Ms. Karen M. Janek
Rev. and Mrs. Roy Brockopp
Mr. and Mrs. Walt Bendorf
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Mike and Joan Taylor
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Mr. Edward F. Ruprecht
Mr. and Mrs. Donald W. Wolz
Toni and Erv Breihan
Mrs. Norma Silber
Mrs. Harriett Woods
David and Ellen Ross

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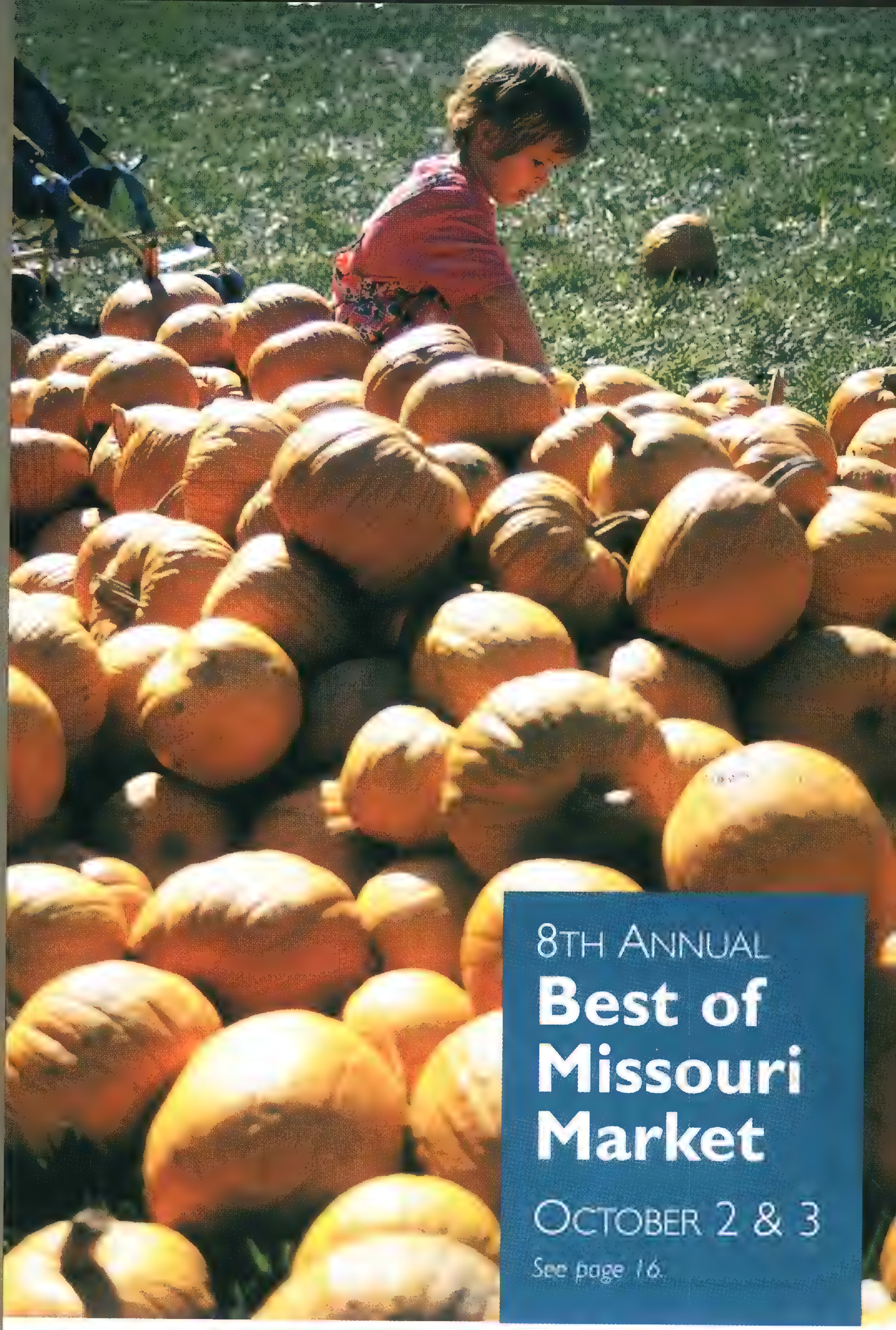

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Missouri Botanical Garden

NOVEMBER / DECEMBER 1999

VOLUME LXXXVII
NUMBER SIX

35,000 Members!

See page 5.

Yellow-banded poison frog,
Dendrobates leucomelas

On the **WILD** Side

Birds, butterflies and amphibians live in the Climatron® rainforest.

It's a jungle in there.

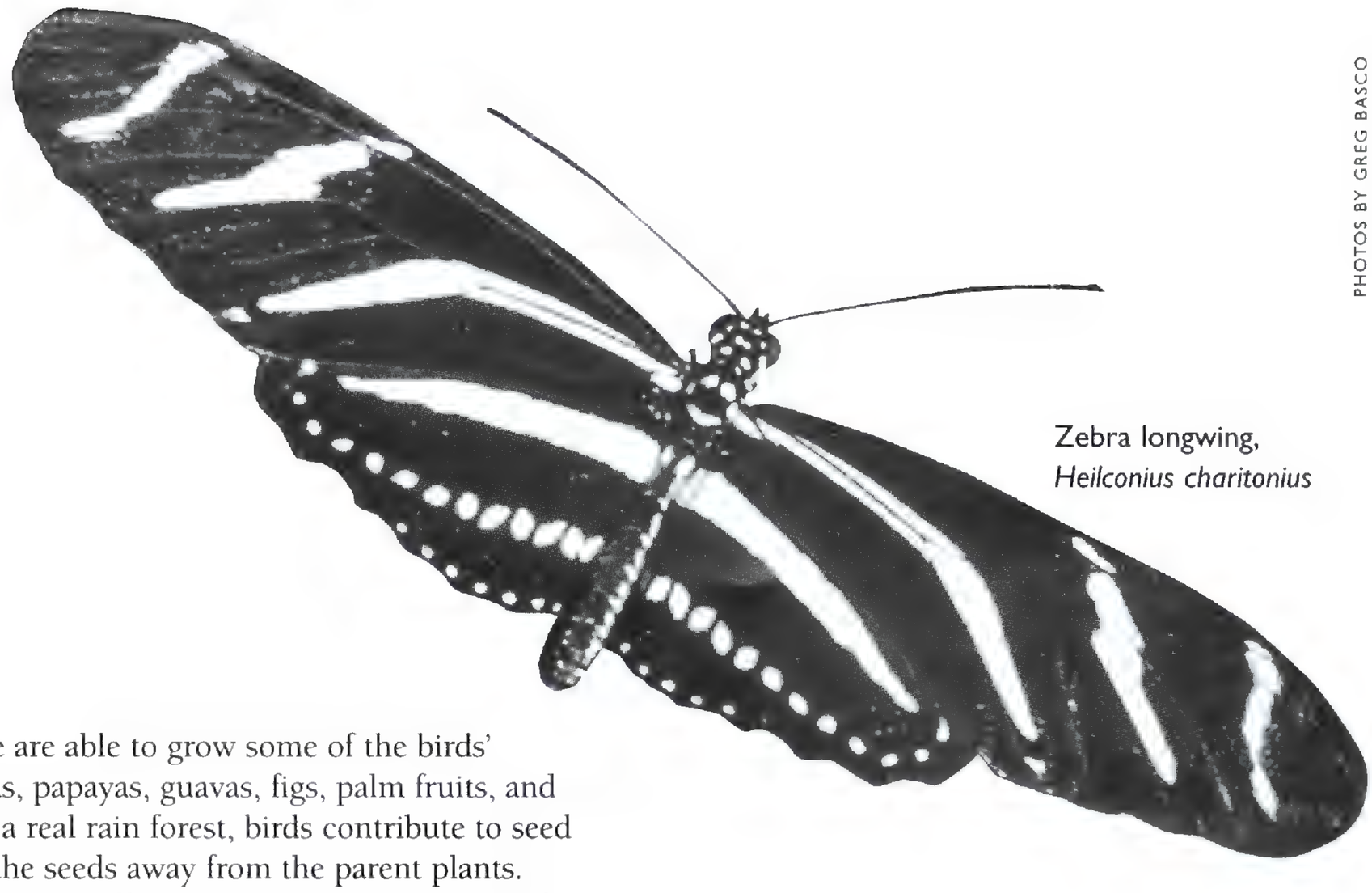
The lush greenery of the Climatron rain forest is filled with tropical birds and butterflies that delight visitors. It is an unusual sight, because the Climatron is one of the few conservatories where birds and butterflies thrive side by side.

This domestic harmony is due to Amy Richard, animal curator and horticulturist in the Garden conservatories. She gathers caterpillars of the two species living in the Climatron, Julia and zebra longwing butterflies, and raises them in a separate environment. Once they form a chrysalis, she moves them into the protected chrysalis stand in the Climatron so visitors can watch the butterflies safely hatch. If this were not done, the birds would destroy the butterfly population.

There are seven different kinds of birds in the Climatron, and three species breed well: the button quail, Barberry doves, and silver-beaked tanagers. Only the quail require protection during the breeding process. They are the size of a quarter when they hatch and very vulnerable. Amy collects the eggs and incubates them for 16 days, turning them twice a day. After brooding the young birds for four weeks, she places them in a juvenile holding cage in the Climatron, where they spend two weeks acclimating to the sights, sounds, and smells of their new environment before being released.

Meals are served twice a day. It takes up to two hours per feeding to take care of all the animals, even with the help of co-workers and volunteers. The menu includes seeds, vegetables,

Red-eyed tree frog,
Agalychnis callidryis



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Zebra longwing,
Heilconius charitonius

fruits, and meal worms. Amy says, "We are able to grow some of the birds' favorite fruits in the Climatron: bananas, papayas, guavas, figs, palm fruits, and jaboticabas, small grape-like fruits." In a real rain forest, birds contribute to seed dispersal by eating fruits and carrying the seeds away from the parent plants.

In addition to birds and butterflies, the staff have released nine species of tropical frogs, three species of toads, ten types of geckoes, and one anole lizard species in the Climatron over the past three years. The geckoes were introduced for biological control and have been very successful. But don't expect to see any of the free-roaming frogs or geckoes, as they use their camouflage well and do their best to stay away from people.

If you would like to see geckoes and brilliantly colored dart frogs, visit the display tanks in the vestibule of the Brookings Interpretive Center. There Amy takes care of nine species of frogs from Central and South America, plus archerfish, Seychelles Island geckoes, and other species that are active in the daytime.

The diversity of wildlife in the Climatron is possible because the conservatory is a healthy environment. Low impact horticulture, integrated pest management, and low toxicity controls keep the Climatron ecosystem healthy and filled with the animals that delight our visitors.

Amy Richard has been on the Climatron staff for three years, and she has been taking care of the conservatory animals since 1997. Trained as a horticulturist, she has learned about animals from books and from animal specialists at zoos and aquariums. She is especially interested in birds and says, "I have always loved working with animals."

Seychelles day gecko,
Phelsuma sp.

The free-roaming tropical frogs and geckoes are hard to spot in the Climatron, but your can visit the Brookings Interpretive Center to see them up close.

Scarlet-rumped tanager,
Ramphocelus passerini

Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

WE ARE CELEBRATING TWO EXTRAORDINARY MILESTONES for the Garden: our 35,000th member and our 5,000,000th mounted herbarium specimen. It seems fitting that we have achieved these goals just as the Garden prepares to enter a new century for the second time in its remarkable history.

The 5,000,000th specimen in our herbarium collection will be officially added at a ceremony on November 11. The collection has doubled in just 30 years, a truly outstanding achievement and a symbol of our leadership in botanical research worldwide. It is significant not just for its size but for the broad scope and depth of the collection, which makes it a superlative resource for plant scientists.

The XVI International Botanical Congress in August, which brought nearly 5,000 scientists from the U.S. and 80 other countries to St. Louis, was a showcase for the global reach of the Garden's research program. Recently, more than 300 scientists gathered at the Garden for our 46th annual Systematics Symposium, on coevolution, which is featured on page 18.

Today the Garden has one of the largest memberships of any botanical institution in the world. It is especially striking when we realize that ten years ago, on the 50th anniversary of the membership program, our total was just 25,000 members.

As we approach the millennium, we are looking forward to new milestones in research, in science education, and in service to the community. As Garden members, your support helps us achieve our goals and meet future challenges, and I thank each and every one of you for your support. *— Peter H. Raven, Director*

Each Season... Each Year... Each Century

As the Garden prepares to enter a new century for the second time in its history, we can take pride in outstanding achievements and look forward to exciting new challenges. And we look to you, our members, for the continuing support that makes it all possible.

As you consider year-end charitable donations, we ask you to give to the Henry Shaw Fund, over and above your annual membership dues. The Henry Shaw Fund provides general operating funds that maintain the Garden's outstanding services in horticultural display, science education, and botanical research.

With your help, the Missouri Botanical Garden has accomplished a tremendous amount this century, this year, and this season. Please call the Development Office, (314) 577-5120 for information.

Please give to the 1999 Henry Shaw Fund.
Watch your mail for a letter with details.

Mailing Address:
Missouri Botanical Garden
Post Office Box 299
St. Louis, Missouri 63166-0299
(314) 577-5100

Visit the Garden Web site:
www.mobot.org

Garden Hours
9 a.m. to 5 p.m. every day except Christmas; 9 a.m. to 8 p.m. Memorial Day through Labor Day. Grounds open 7 a.m. Wed. & Sat.

Shaw Arboretum:
(314) 451-3512.

24-Hour Information:
GardenLine – (314) 577-9400
Or call 1-800-642-8842.

24-Hour Gardening Tips:
HortLine – (314) 776-5522
Request a brochure from the Kemper Center for Home Gardening at (314) 577-9440, or send a stamped, self-addressed envelope to HortLine at the address below. Or see the Garden Web site, www.mobot.org.

Employment/ Volunteer Hotline: (314) 577-9401
Or see www.mobot.org.

Horticulture Answer Service:
(314) 577-5143
9:00 a.m. to noon, Mon. – Fri.

Master Composter Hotline:
(314) 577-9555
9:00 a.m. to noon, Mon. – Fri.

On the Cover
Shining sumac, *Rhus copallina*, in the English Woodland Garden.
– Photo by Jack Jennings

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, call (314) 577-5118.

Postmaster: Please send address changes to: Bulletin, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

KRISTEN PETERSON

Enjoying their carriage tour of the grounds are (from left): Carol Senn, sister of Melissa Gill and a Garden member; Danny and Melissa Gill with their children, Susie and Austin; Peter Raven, director, and Liz Teasdale, Members' Board president.

WOW! 35,000 MEMBERS!

WITH ONE OF THE LARGEST MEMBERSHIPS of any botanical institution in the world, the Garden has reached another milestone: on September 25, we officially welcomed our 35,000th member.

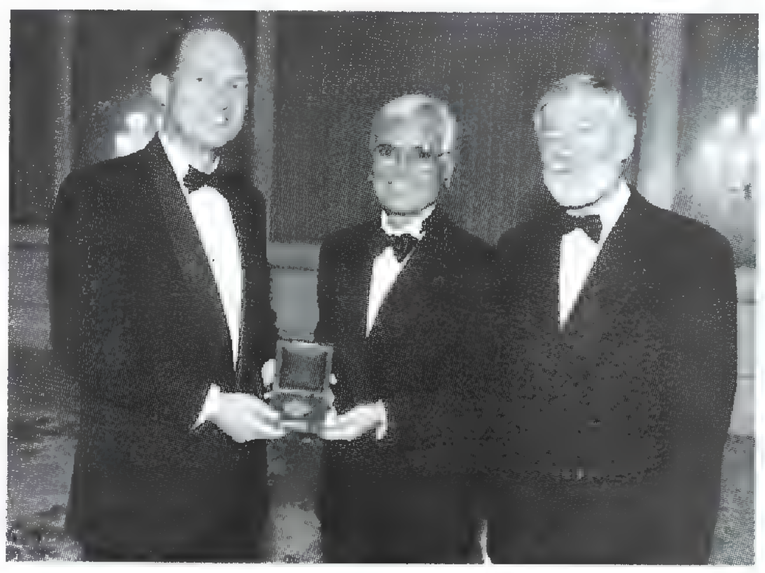
Mr. and Mrs. Danny Gill and family of St. Charles, Missouri are the 35,000th member household. They were feted with a luncheon, a carriage ride through the Garden grounds, and a wheelbarrow filled with gardening supplies donated by Hanneke Hardware on Southwest Avenue near the Garden. The Gills were married at the Garden and were celebrating their wedding anniversary when they were notified that they were the 35,000th members.

"This is a wonderful day for the Garden," said Mrs. Kenneth Teasdale, president of the Members' Board. "We are very grateful to all the people in St. Louis who support the Garden with their memberships."

1999 Henry Shaw Medalists

HENRY SHAW MEDALS were presented to Liz Claiborne and Art Ortenberg, and to Margaret Grigg Oberheide, on September 28, 1999. The medal is the Garden's highest honor. It recognizes individuals who have made a significant contribution to the Missouri Botanical Garden, botanical research, horticulture, conservation, or the museum community.

Elisabeth Claiborne Ortenberg and Art Ortenberg have devoted themselves for the past ten years to conservation and building sustainable communities around the world. They provide major support for the Garden research programs in Ecuador, Bolivia, Madagascar, and Tanzania.



David Kemper, president of the Board of Trustees, presenting the Henry Shaw Medal to Liz Claiborne and Art Ortenberg.

TIM PARKER

David Kemper with Peg and Fred Oberheide.

Margaret Grigg Oberheide is a Garden Trustee and a philanthropist who has supported the cultural life of St. Louis for 50 years. She serves as an inspiration and example to many in the community.

BEYOND POINSETTIAS

POINSETTIAS ARE TRADITIONAL FAVORITES at the Holiday Flower Show, but look around when you visit the show this year. You'll find some new ideas to brighten your home with a variety of flower shapes, colors, and textures. All of these plants grow well indoors and many are available in the Garden Gate Shop.

Amaryllis

Amaryllis hippeastrum originated in tropical South America. The large cultivated amaryllis come in a rainbow of colors on the impressive trumpet shaped flowers.

Colorful holiday plants come in all shapes and sizes.

Plant with the top of the bulb above the rim of the pot in a container just slightly larger than the bulb. Use a well drained potting soil. Water thoroughly around the bulb, not over the top, using warm water. Place the pot in a sunny location and keep the soil moist, being careful not to overwater. Flowers will appear in four to six weeks.

After flowering, continue to water and feed with a well balanced fertilizer until late summer, when the bulbs should begin their required eight to twelve-week dormant period. Water sparingly during dormancy, but do not allow the bulbs to shrivel. Resume regular watering in early November for new flowers by the holidays.

Cyclamen

Cyclamen persicum comes from the eastern Mediterranean. Cultivars range in size from the newer mini-cultivars to older types with large leaves and blooms. Flowering can be maintained for up to six weeks if plants receive bright light and cool night temperatures of around 65° F. Pinch spent blooms at the crown of the plant to encourage additional flowering. Keep continuously moist.

Kalanchoe

Kalanchoe blossfeldiana is a succulent herb from Madagascar which requires thirteen hours of continuous darkness nightly for approximately twelve weeks in order to set flower buds. Blooms come in vivid shades of red, orange, rose, and purple, often with an almost iridescent quality. The plants are succulent and should be kept in a bright location and allowed to dry out between watering. Kalanchoes are very easy to grow indoors, but it is difficult to force them to bloom again.

Ornamental Peppers

Capsicum cultivars are in demand for their brightly colored fruits in various shapes. The peppers can begin as white or yellow, then change to bright red, orange, or purple. A multitude of colors can appear on a single plant depending on the maturity of the fruits. Capsicums remain attractive long after the holiday season is over. After the plants finish blooming, keep them moist and feed with a complete liquid fertilizer at half strength. When the danger of frost is past, plant outside in the garden or in a container. They will continue to bloom and set fruit throughout the summer.

Gloxinia

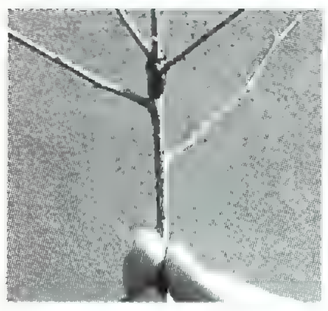
Sinningia speciosa is in the same family as the familiar African violets and their care is very similar. Recent hybridization has made them much easier to grow and longer lasting. The plants do not require bright light. Because of their fibrous root system and leathery leaves, they should be allowed to dry out slightly between watering. With light feedings of a balanced fertilizer they are excellent houseplants.

Holiday Cactus

The true Christmas cactus, *Schlumbergera* × *buckleyi*, is often confused with the Thanksgiving cactus, *Schlumbergera truncata*. Thanksgiving cactus has serrated leaf margins and will flower earlier than the Christmas cactus, which has rounded leaf margins. To flower for Christmas, plants should receive only nine hours of daylight starting around the middle of September, and night temperatures should be maintained around 60° F until flower buds are developed in approximately four to six weeks. Then plants can be exposed to natural day length. Both holiday cacti work well as houseplants with a minimum of care and are very impressive as hanging baskets whether in or out of bloom.

— Stephen E. Wolff, MBG Senior Horticulturist

Steve Wolff is a 31-year veteran of the Garden's Horticulture Division. He was hired in 1968 as a 17-year-old high school senior and continued to work at the Garden while earning his horticulture degree at Meramec Community College. He counts himself privileged to have seen the Garden develop and to have worked with such leaders as Paul Kohl, Lad Cutak, and George Pring. As senior horticulturist in the greenhouses, Steve is responsible for producing plants for all of the Garden's indoor and outdoor displays and for the annual Flower Sunday festival at Christ Church Cathedral, stipulated in Henry Shaw's Will.



ALERT: Eastern Tent Caterpillars

Keep a sharp eye on your ornamental fruits and other trees this fall and winter. If you spot a bump on the small twigs that resembles a piece of dark styrofoam glistening with varnish, it is an egg mass of the Eastern tent caterpillar, *Malacosoma americanum*. The adult moths, which feed on leaves, lay the masses of 100-350 eggs in summer. Population levels of these insects rise and fall, with peak outbreaks such as this year occurring about once a decade in St. Louis. Timely removal of the egg masses by pruning or gentle scraping is an easy, low-toxicity remedy. It will help prevent another major infestation next year, which could further weaken trees, and is especially helpful for plants that were also stressed by drought this past summer.

What's Coming up

MBG Daylily Society Makes Donation

Thanks to a leadership gift from the MBG Daylily Society, the Horticulture Division will have a laser engraver for plant labels and signs. A group of volunteer plant societies at the Garden made donations to help fund the project, with major support provided by the MBG Daylily Society. Shown presenting a check for the laser engraver are (from left): Marty Meagher, Dr. Shannon Smith, director of horticulture, Mirko Bolanovich, Chick Buehrig, and Jason Delaney of the horticulture staff.

Volunteers: We Want YOU!

Plant Doctor, Answer Service, and More

The Kemper Center for Home Gardening will offer training programs for new Plant Doctor, Answer Service, and receptionist volunteers from mid-January through March. If you are interested in volunteering your time and skills in any of these areas, please call for an information packet, (314) 577-9441. The application deadline is November 30.

Celebrating the Millennium

"A Millennium Journey," an event held on September 25, celebrated 1000 years in a single day with a symbolic journey from Cahokia Mounds State Historic Site, the largest city in northern North America in the year 1000, to Tower Grove Park in St. Louis.

Participants in the journey carried a ceremonial bowl of corn, which was grown by staff and volunteers of the Garden's Horticulture Division and Cahokia Mounds. The corn represented grain that would have been grown by Mississippian people 1000 years ago. Dr. Shannon Smith, the Garden's director of horticulture, obtained seed of "white flower corn" from the Ancient Lifeways Institute in Illinois.

News of Note

Arboretum Update

Restoring a Historic Cabin

THE EDGAR DENISON CABIN, named in memory of the author of *Missouri Wildflowers*, is taking shape at the Dana Brown Foundation Overnight Education Center at Shaw Arboretum. The Denison Cabin is the first of four large two-story structures acquired by the Arboretum to serve as sleeping cabins. The overnight education center will provide an exceptional facility for school groups, teachers, and other adults to experience nature and participate in environmental education programs.

The buildings are all 19th century log structures acquired from farms in the area. A 125-year-old two-story cabin of 12 by 12-inch handhewn white oak logs was generously donated by longtime Garden member Norman Holtzinger from his farm property in Madison County, Illinois.

The sleeping cabins are being meticulously restored with extensive use of traditional materials, craftsmanship, and recycled materials. When complete, the facility will also include a large timber frame barn, which will be used as an assembly building. A modern shower facility will be built to harmonize with the historic structures.

Miller Named to Arboretum Committee

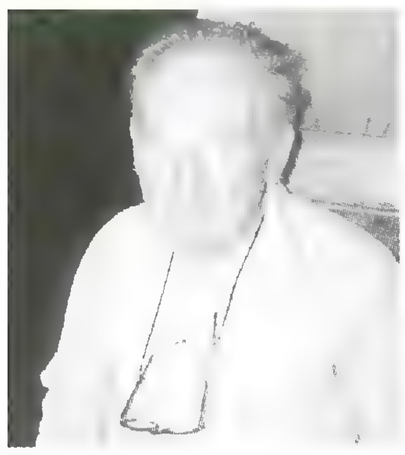
William L. Miller, Sr., has been named to the Arboretum Committee of the Garden's Board of Trustees. Mr. Miller is editor and publisher of the *Washington Missourian*. He joined the staff of the paper in 1953 and became editor in 1957. He is a past president of the Missouri Society of Newspaper Editors and very active in community affairs.

The Arboretum Committee of the Garden Board of Trustees includes several members who have been invited to serve because of their dedication to the Arboretum. "We are very pleased to have Bill on the Committee," said John Behrer, director of Shaw Arboretum. "His involvement and commitment to Franklin County is a wonderful asset, and we are looking forward to working with him."

Orchid Expert Is Named Senior Curator

MOST PEOPLE are satisfied with one successful career. Carl Luer has had two.

In May, 1999, Carlyle A. Luer, M.D., was named a senior curator of the Missouri Botanical Garden. Dr. Luer is the world's premier authority on pleurothallid orchids and recipient of the 1996 Gold Medal of Achievement from the American Orchid Society. He has been a research associate of the Missouri Botanical Garden for more than 15 years.



Dr. Carl Luer

Dr. Luer, who lives in Florida, received his medical degree from Washington University in 1946. After 30 years as a physician, he retired to pursue his interest in tropical orchids. He single-handedly produced two definitive books, *The Native Orchids of Florida* and *The Native Orchids of the United States and Canada*. In 1973 Dr. Luer co-founded the Marie Selby Botanical Gardens in Sarasota, Florida and recruited Calaway Dodson, Ph.D., as its first director. Dodson, a specialist in orchids, went on to become a curator of the Missouri Botanical Garden, living in Ecuador.

In 1975, Dodson encouraged Luer to turn his attention to the pleurothallids, a large and poorly known group of tropical orchids. Together with his wife, Jane, Dr. Luer has made dozens of expeditions to Central and South America to study the plants growing in the wild. He has collected nearly 20,000 specimens and prepared more than 3,800 drawings. His present herbarium of nearly 10,000 sheets will come to the Garden as he finishes with them. Each is accompanied by a flower preserved in liquid.

His output has been prodigious by any standards. He has described more than 1,500 new species and 12 new genera. His *Icones Pleurothallidinarum*, published by the Missouri Botanical Garden, now includes 17 volumes, with numbers 18 and 19 soon to be printed. He has also produced the magnificent *Thesaurus Masdevalliarum* and *Thesaurus Dracularum*, the latter with beautiful color illustrations by Stig Dallstroem.

Peter Raven said, "Carl Luer's dedication to the study of the systematics of *Pleurothallis* has made a large and wonderful contribution to the understanding of this most difficult and complex genus. His active collaboration in our flora projects has been invaluable, and we are delighted to recognize him as a senior curator."

Endowments

Thomas B. Croat, P. A. Schulze Curator of Botany

STUDYING PLANTS may sound like a quiet way to make a living. And it can be, until you are accosted by a wild boar or a group of armed guerillas.

All of those adventures and more have happened to Tom Croat, who spends months each year collecting plants in the tropics. Field research can be a dangerous business, with botanists encountering malaria, bad roads, political upheavals and more. But for Croat, who specializes in poorly known tropical plants called aroids, exploring remote regions is part of the job.

The aroid, or Araceae, family is important economically and includes philodendrons, diffenbachias, anthuriums, and many other familiar houseplants that thrive in low light. The family is very poorly known. It has about 2,500 species, and scientists estimate that approximately half still await discovery. The plants are hard to study and collect, because they often grow high up in trees.

Dr. Croat spends several months a year collecting plants in tropical forests around the world.

Dr. Croat is one of the world's few experts on Araceae. He has described more than 500 new species and maintains some 6,000 specimens, the world's largest collection of living aroid plants, in the Garden's greenhouses. "Because these plants are large and fleshy, they are very difficult to study from dried herbarium specimens," he explained.

Dr. Croat graduated from Simpson College and earned his master's and Ph.D. degrees from the University of Kansas. He has been a member of the Garden staff since 1967.

For information on endowing a named curatorship at the Garden, please call Patricia Arnold, director of development, at (314) 577-5120.

Gift Planning

A Charitable Gift Annuity

Help Secure Your Future and the Future of the Garden

A GIFT to the Missouri Botanical Garden can provide you with a guaranteed income for life. With a gift of appreciated stock, you may also eliminate capital gains tax on the transfer. Rates of return for a single life charitable gift annuity with the Garden range from seven percent to 12 percent, based on your age.

For a free, no-obligation illustration of how a charitable gift annuity would benefit you, please send the information at right to: Judi Schraer, Planned Giving Officer, Missouri Botanical Garden, P.O. Box 299, St. Louis, Missouri 63166. You may call (314) 577-9455, or email: judi.schraer@mobot.org.

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News of Note

Natural History Adventure

Kenya

JUNE 2000

Join a marvelous excursion to Kenya, famed for its magnificent wildlife and awe-inspiring scenery. The trip includes the Samburu Game Reserve, mountain forests near Mt. Kenya, the beauty of Lake Nakuru, and the vast savannah of the Masai Mara, an extension of the Serengeti, with its large herds of zebra, wildebeest, and gazelle. For an itinerary and brochure, call the Garden Education Division, (314) 577-5144.

PETER NEWCOMB

Educating Botanists Worldwide

Deby Arifiani came to St. Louis two years ago to earn a master's degree in botany from the University of Missouri–St. Louis. She was the first student from Indonesia to study at the Garden.

Deby is pictured in the herbarium with her advisor, Dr. Henk van der Werff, deputy director of research at the Garden. She specializes in Lauraceae, an important family of tropical plants still poorly known to science. Dr. van der Werff is one of the few experts on Lauraceae in the world.

While earning her degree, Deby attended the Organization for Tropical Studies course in Costa Rica. She has returned to Bogor, Indonesia, where she will work at the national herbarium and continue to study Lauraceae of Malesiana, a region consisting of Malaysia, Indonesia, the Phillipines, and Papua New Guinea.

PHOTOS: PAUL OTT

Shown enjoying the party are (from left) Steve Cline, manager of the Kemper Center for Home Gardening; Holly and Jim Brigham; and Mary Ott.

David Timney, executive chef of Balaban's.

Chefs in a Garden

Fun on the Range

AT THE SECOND ANNUAL "Chefs in a Garden" benefit for Gateway Greening, Inc., held on September 12, a deliciously good time was had by all. Guests sampled special recipes and luscious fare from ten of the finest restaurants in St. Louis, using ingredients grown by local community gardeners.

"Science Friday" Broadcasts Live from the Garden

NATIONAL PUBLIC RADIO's "Talk of the Nation — Science Friday" broadcast live from Shoenberg Auditorium on August 27, 1999. The broadcast was presented by 90.7 KWMU-FM, a service of the University of Missouri–St. Louis.

Host Ira Flatow led a discussion of ethnobotany and the uses of plants in medicine with callers and on-air guests. Panelists were Dr. Peter H. Raven, associate curator Dr. James S. Miller, director of the Garden's Department of Applied Research, and Dr. Steven King of Shaman Pharmaceuticals of San Francisco. More than 300 people attended the broadcast.

TIM PARKER

Shown at a reception following the broadcast are (from left): Jim Miller, Ira Flatow, and Peter Raven.

Calendar of Events

Nov. & Dec.

November 22 – January 2

Holiday Wreaths

Daily in Monsanto Hall. A wonderful holiday tradition features magnificent wreaths by some of the finest floral designers in St. Louis: Alex Waldbart, Botanicals on the Park, The Bug Store, Dale Rohman, Detail, Flower Depot Ltd., Kenary Park, Kirkwood Florist, Ladue Florist, Lee Russo Designs, My Secret Garden, Randy Felkey, Schnucks Markets, Seeds, Silkworm's Garden, Studio P, Surprise, Tom Carr, Wichman's Flowers. Free with Garden admission or membership.

November 24 – January 2

The Holiday Flower Show

"Magic of the Crystal Palace"

9 a.m. to 5 p.m. daily, Orthwein Floral Display Hall. The Snow People welcome you to their sparkling world. Delight as they play in the snow, feed the seals, and decorate for the holidays with all the glitter and shimmer of the season! Filled with colorful poinsettias, cyclamens, gloxinias, peppers, and lots of unusual blooming plants and foliage for a dazzling display. Flower show admission: $2 adults, $1 seniors, free to members and children 12 and under.

November 23 Tuesday

Members' Preview Party

5 to 8 p.m., Ridgway Center. Entertainment, cash bar. Dinner buffet will be available for purchase in the Gardenview Restaurant, $10.95 per person, no reservations. Garden Gate Shop will be open. Free, for members only.

November & December Events

November 1 Monday

Winter Tram Schedule Begins

Trams will run at 10 and 10:30 a.m., 2 and 2:30 p.m., weather permitting.

November 18 Thursday

Candlelight Tour

4:30 to 8:30 p.m., Tower Grove House. Experience the elegance and romance of a 19th century English Christmas in Henry Shaw's home, decorated for the holidays in traditional Victorian splendor. Musicians will provide live entertainment. Refreshments will be served in the Tea Room. Presented by Tower Grove House Auxiliary to benefit the House. Tickets are $12 per person. Advance reservations are required; please call (314) 577-5150.

December 2 & 3 Thursday & Friday

Carols in the Garden

5 to 9 p.m., Ridgway Center and Garden grounds. Join us for a delightful winter evening as the sound of traditional holiday caroling fills the air. Visit with Santa at Spink Pavilion and see the magnificent Christmas tree at Kemper Center, decorated entirely with dried flowers. Enjoy hot roasted chestnuts, a hurdy-gurdy man, children's holiday craft workshops, apple cider and cookies, and more. Free admission to the Holiday Flower Show, "Magic of the Crystal Palace," is included in ticket price. $6 for adults, $4 for members or seniors, $2.50 for children ages 3-12. Buffet supper available in the Gardenview Restaurant, $8.75 for adults, $4.50 for children under 12, no reservations.

November 5 – 7

Pre-Holiday Sale

Friday: 9 a.m. to 7 p.m.; Saturday & Sunday: 9 a.m. to 5 p.m. in the Garden Gate Shop. Refreshments; members receive 20% discount, all three days.

November 7 Sunday

"From the Garden, Live®"

Duets with Spanish Guitar. Noon, Shoenberg Auditorium. Concert series is broadcast live, sponsored by the Garden and KFUO-FM. Call (314) 725-0099 for ticket information.

November 14 Sunday

"From the Garden, Live®"

St. Louis Symphony Children's Choir. See November 7 for details.

November 15 — 21

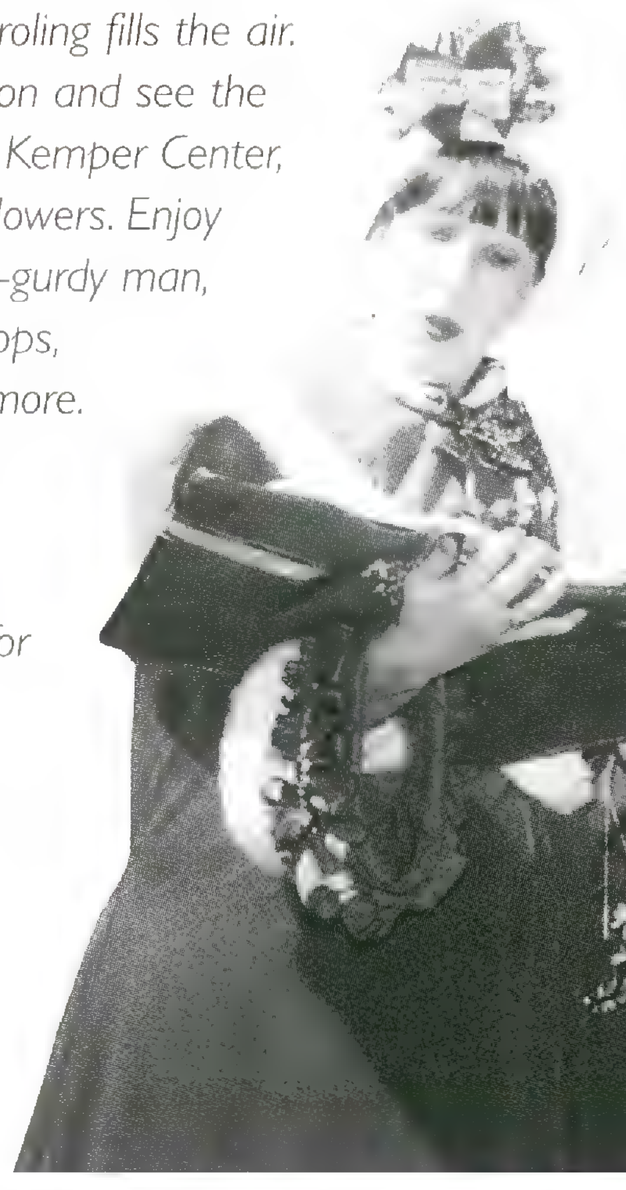
"Plant a Seed—Read!"

9 a.m. to 5 p.m. daily, Garden Gate Shop. Celebrate the 80th annual National Children's Book Week with a 20% discount on all children's books. Special commemorative posters, free bookmarks, and more!

November 20 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop. For children ages four to ten. Dr. Peter Bernhardt will present adventures of Snugglepot and Cuddlepie, created by beloved author and illustrator May Gibbs. Learn about the world of plants and make a fun project to take home. Parents are welcome to attend, and children under four must be accompanied by an adult. Free, no reservations.



November & December Events

November 21 Sunday

"From the Garden, Live®"

Cellist Melissa Brooks and Crossings. See November 7.

November 26 – 28

After-Thanksgiving Sale

9 a.m. to 5 p.m. daily, Garden Gate Shop. Special reductions on selected items; members receive 10% off reduced prices.

December 3-5

Holiday Sale

Friday: 9 a.m. to 9 p.m. Saturday & Sunday: 9 a.m. to 5 p.m. in the Garden Gate Shop. Refreshments; members receive 20% discount all three days.

December 5 Sunday

Historic Shaw Home Tour

Noon to 6 p.m. Sponsored by the Shaw Neighborhood Improvement Association. Park at Missouri School for the Blind, 3815 Magnolia Avenue, where entertainment and refreshments will be available; then walk, drive, or take the free shuttle service for the house tour. Tickets are $8 at the door, or may be purchased in advance at the Garden Gate Shop for $7. For more information call (314) 771-3101.

December 6, 8, 14, 16

Tower Grove House Christmas Luncheons

Noon, in the Tea Room. Presented by Tower Grove House Auxiliary. Enjoy a special luncheon and the beautiful Victorian holiday decorations. Advance reservations are required: please call (314) 577-5150.

December 12 Sunday

"From the Garden, Live®"

Bach Society of St. Louis. See November 7 for details.

December 18 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop. Mrs. Claus takes a break in her busy schedule to read favorite holiday stories. See November 20 for details.

December 19 – 21
Sunday – Tuesday

Pre-Inventory Sale

9 a.m. to 5 p.m. daily, Garden Gate Shop. All seasonal merchandise will be reduced. Members receive 10% off reduced prices.

Walking Tours led by the Garden Guides

1 p.m. daily. Meet at the Ticket Counter.

Free Eco-Cart Demonstrations

Every Saturday from 11 a.m. to 3 p.m. in the Brookings Interpretive Center.

Garden Walkers' Breakfast

In cooperation with the American Heart Association, the grounds open early every Wednesday and Saturday morning at 7 a.m. to encourage fitness walking. A heart-healthy breakfast is available for purchase in the Gardenview Restaurant, 7 to 10:30 a.m.

December 5 Sunday

Chanukah: Festival of Lights

11 a.m. to 5 p.m., Ridgway Center. This traditional Jewish holiday celebration includes festive music and a Menorah Lighting Ceremony. The stories of Chanukah are told by puppets, storytellers, and musicians throughout the day. Festivities include an Israeli shuk, or market, a concert by the Circle of Jewish Music, Chanukah cookie decorating, and children's craft workshops. Free with Garden admission or membership.

December 27 Monday

Kwanzaa

11 a.m. to 5 p.m., Ridgway Center. Kwanzaa is a Swahili term which means "first fruits." This contemporary African American holiday is centered around the Feast Table of the harvest. A Kwanzaa ceremony highlights a day of storytelling, craft and jewelry workshops, African merchandise vendors, authentic African drumming, and choral performances. Free with Garden admission or membership.

November & December Events

MEMBERS' DAY — November 18 Thursday

Holiday Decorating

11 a.m., Shoenberg Auditorium. David Hoffman and Michael Shreves of Silkworm's Garden in Des Peres share creative ideas for making colorful and memorable holiday decorations. Seating is on a first-come, first-served basis. Free, for members only. In the Garden Gate Shop, members receive an extra 5% discount on all seasonal decorations and plants.

MEMBERS' DAY — December 19 Sunday

The Muny Kids in Concert

1 p.m., Shoenberg Auditorium. This delightful performance by The Muny Kids is sure to put the entire family in the holiday spirit! Seating is on a first-come, first-served basis. Free, for members only. And be sure to visit the Garden Gate Shop, where members get an extra 5% discount at the Holiday Pre-Inventory Sale.

Members days are free, for Garden members and their guests. Receive free tram rides, special discounts in the Garden Gate Shop, and 10% off in the Gardenview Restaurant.

SPECIAL MEMBERS' EVENT — December 4 Saturday

Breakfast with Santa

8 to 10:30 a.m., Gardenview Restaurant. Fun for the whole family! Visit with Santa, make a fun holiday craft to take home, and share the spirit of the season by bringing a pair of mittens or a child's hat to donate to a good cause. Enjoy an old-fashioned breakfast with pancakes, bacon and sausage, scrambled eggs, potato patties, biscuits with butter and jam, and coffee cake with cinnamon and sugar.

Breakfast is $10 per person. Children age two and under are free. Advance reservations are required. Please call (314) 577-9500, or send your check to the Membership Office, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166.

Seating in the Gardenview Restaurant is on a first-come, first-served basis. While you're at the Garden, don't miss the annual Holiday Sale in the Garden Gate Shop, with a special 20% discount for members.

Members

Past Presidents of the Members' Board

Mrs. Henry W. Dubinsky

ELLEN DUBINSKY doesn't do things halfway. Since joining the Members' Board in 1982, she has devoted herself to activities at the Garden, including the "Best of Missouri" Market, which just completed its eighth successful year. Together with Nora Stern, she helped to found the Market and has served as co-chair every year.

"Working at the Garden is so rewarding," she says, "because you can see results in the enthusiasm of our members and the public. When we first started the Market, we had one tent and 56 vendors. This year we had three tents and 104 vendors! It is a terrific way to reach out to families and people who otherwise might not know about the Garden."

Over the years, Ellen has served as co-chair of the Garden's 125th anniversary celebration, the "Rare Opportunity" benefit and auction, and the benefit party at Lord & Taylor. She also co-chaired the first St. Louis Garden Tour in 1986 and the second tour in 1988. She served as president of the Members' Board in 1988 and 1989, when the program celebrated its 50th anniversary. By the end of 1989, membership had increased to 25,000.

Ellen has watched the Garden grow and develop into a world class institution in the past 20 years. "It is wonderful how the Garden is recognized everywhere we go," she said. "It truly is one of the finest botanical institutions anywhere and a great asset to St. Louis."

A Gift for All Seasons

Save 20% on Gift Memberships — December 3–5

During the three days of the Holiday Sale in the Garden Gate Shop, you may purchase a regular $55 Garden membership for just $44 or a $50 senior membership for just $40. Give a gift that will delight your family and friends all year long, or enjoy your special 20% members' discount right away at the Garden Gate Shop sale.

Each person who receives a gift membership will also receive a delightful snowflake wind chime specially packaged with a holiday greeting from you.

Thanks, Everyone!

The eighth annual Best of Missouri Market was a great success thanks to the hard work and enthusiasm of hundreds of volunteers, including the Members' Board, and the chairs for the event, Nora Stern and Ellen Dubinsky. Our warmest thanks go to each and every person who attended the Market, to our wonderful advertisers, and to our generous sponsors:

GrandPa's, Coca-Cola, KMOX, MasterCard, Commerce Bank, Clifford Willard Gaylord Foundation, Bank of America, St. Louis County Farm Bureau, and Agri-Missouri.

New Members of the Peter H. Raven Society

The Peter H. Raven Society, named in honor of the Garden's director, recognizes individuals who make unrestricted annual gifts of $10,000 or more for a minimum of three years. We are delighted to acknowledge these new members of the Raven Society for their generous support:

Mr. and Mrs. Larry E. LaBrier

Mr. and Mrs. Anthony F. Sansone, Sr.

TIM PARKER

Annual Brick Party

A wonderful time was enjoyed by all at a reception on October 7 at the William T. Kemper Center for Home Gardening. The party was held in appreciation of donors who placed bricks in the Members' Entry Court Garden during the past year. Bricks are engraved with names of family and friends and make every visit to the Garden special. For information on purchasing bricks, please call Teri-Ann Wallace at (314) 577-9495.

This is not your parent's science project.

COMPUTERS & *Creeks*

"THIS IS REALLY NEAT!" High school students spent a recent morning at Litzsinger Road Ecology Center, dipping up water samples from Deer Creek and testing them. By entering their findings into a computer, using Geographic Information System (GIS) software, the students can map and analyze their data within the ecosystem of the entire Deer Creek watershed in St. Louis County.

The new, cutting-edge GIS program at Litzsinger Road Ecology Center is attracting national attention. Part of the Education Division's goal of integrating more technology into its programs, it trains students and teachers to develop their inquiry skills by combining computer technology and environmental monitoring. The program is providing a model for schools and other institutions.

"Using computers to support field experiences can enhance learning," said Dr. Bob Coulter, project coordinator. "Students enjoy doing real science, solving real problems. They see the usefulness of the science, math, and technology skills they learn in school."

This year, more than 1,000 students in grades 6-12 are participating in the environmental monitoring program, after their teachers were trained in water testing and GIS technology in a two-week institute last summer at the Litzsinger Road Ecology Center. The Garden provides continuing support by developing teaching materials and working directly with teachers as they implement the project at school and in the field.

After collecting water quality data at various test sites, students use GIS software to make maps of the watershed and analyze the information. Preliminary results from last spring's pilot test of the project indicate a decline in water quality as the creek approaches the St. Louis city limits, which may be due to the more densely populated neighborhoods and the greater concentration of industry in that area.

Student testers also noticed a significant increase in certain forms of chemical pollution during the winter, which abated in the spring. Their tentative explanation was that road salt

Students are using real science to answer real questions at Litzsinger Road Ecology Center. The new Geographic Information System (GIS) program combines computer technology with environmental monitoring. Here, Dr. Bob Coulter (right) helps students enter their data on a laptop computer.

was washing into the creek. This year, students will use more specific instruments year to test this conclusion. Any changes in the environment will be documented as the project continues to collect data.

Celeste Prussia, manager of Litzsinger Road Ecology Center, conceived the original idea for bringing GIS to the Education Division's programs. We are very grateful to the Litzsinger Road Ecology Foundation for its primary support for the project. Additional support has been provided by Environmental Systems Research Institute (ESRI) in Redlands, California, the Missouri Department of Conservation, and the Missouri Department of Natural Resources.

New Master Ecologists Needed

The Litzsinger Road Ecology Center is recruiting volunteers for its next Master Ecologist training course. Master Ecologists share their enthusiasm about the natural world by assisting staff, teachers and small groups of students in ecology study activites at the Center.

Classes will meet 9 a.m. to 3 p.m. on Mondays, February 28 through May 22, 2000. In addition to class time, trainees are expected to contribute 50 hours assisting education programs at the Center. Applicant interviews for the spring training class will be held in December and January. For more information and to apply, please call Celeste Prussia at (314) 577-5117.

PHOTOS BY TIM PARKER

Left: Fifth graders Nate Litz and Nathan Strauss collect water samples and use a Global Positioning System (GPS) device as part of their science fair project on water monitoring.

Above: High school students from Westminster Christian Academy test the water of Deer Creek.

Research

TIM PARKER

Speakers at the Systematics Symposium (from left): Brian Farrell, Olle Pellmyr, Peter Raven, Lynda Goff, Roy Halling, Christopher Schardl, and May Bernenbaum.

46th Annual Systematics Symposium Features Coevolution

FROM BACTERIA found in insects' intestines to toadstools in forests — from beetles eating plants to the pollination of yucca flowers — "coevolution" describes the interdependent roles of plants, animals, and other organisms. The term was introduced by Peter H. Raven and Paul R. Ehrlich in 1965.

More than 300 scientists from the United States and other countries convened at the Garden to discuss recent research in coevolution during the 46th annual Systematics Symposium, October 8-9, 1999. Since the annual symposium began at the Garden in 1954, the National Science Foundation has provided support for 44 of its 46 years, including this year.

Hugh Iltis Is Honored

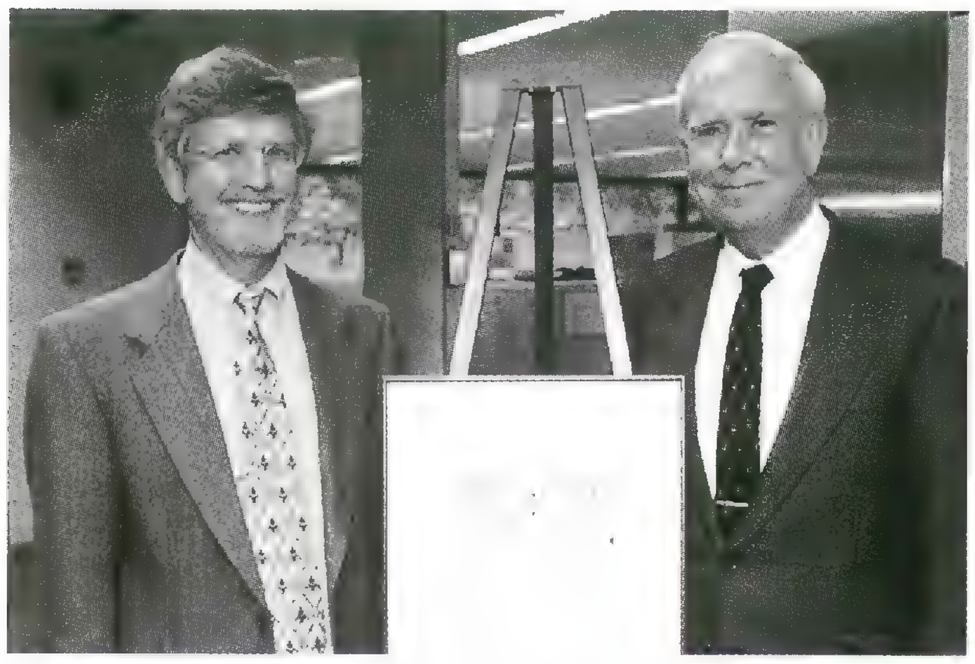
During the Systematics Symposium, Hugh H. Iltis was presented with a resolution honoring his outstanding career as a botanist. Iltis studied at the Garden and served as research assistant to Robert Woodson from 1948 to 1951, while earning M.A. and Ph.D. degrees from Washington University. He was recognized for his achievements as a scholar, administrator, and promoter of botany, including his service at University of Arkansas, 1952 to 1955, and University of Wisconsin, 1955 to the present. Special tribute was paid to his contributions to the knowledge of corn, Capparaceae, and botanical conservation.

TIM PARKER

Peter Raven and Hugh Iltis during the Systematics Symposium.

Bryophyte Herbarium Is Named for Marshall Crosby

TIM PARKER



Marshall Crosby (left) and Peter Raven at the dedication of the Crosby Bryophyte Herbarium.

THE NEW facilities of the Bryology Department in the John S. Lehmann Building were dedicated on October 9, 1999, as the Crosby Bryophyte Herbarium. The facility was named in honor of the 30th anniversary of Marshall R. Crosby, the Garden's senior botanist. Peter Raven paid tribute to Crosby's "tireless devotion and unceasing drive in the pursuit of excellence."

Dr. Crosby has been a member of the Garden Research Division since 1968. He was the first bryologist on staff and has been primarily responsible for developing the program into one of the world's leading centers for study of mosses, liverworts, and hornworts, a group commonly referred to as bryophytes.

Today the Bryology Department has a herbarium collection of over 300,000 specimens and a comprehensive bryological library. Five Ph.D. bryologists plus graduate students, research associates, and support personnel study bryophytes of North and Central America, Andean South America, Africa and Madagascar, and China. They maintain a computer database available on the World Wide Web and recently produced a *Checklist of Mosses*, a listing of all the mosses in the world.

Crosby earned his B.S. and Ph.D. degrees from Duke University. During his career at the Garden he has served as director of research, editor of the *Annals*, head of Scientific Publications, and founder of *Monographs in Systematic Botany, News from MO*, and *Novon*. He was instrumental in developing TROPICOS, the Garden's botanical database system.

National Magazines Feature Peter Raven

The September issue of *Scientific American* profiles Peter H. Raven, the Garden's director, as "Defender of the Plant Kingdom" and praises his leadership in working to preserve ecosystems. The October issue of *Discover* magazine has a feature titled "Peter the Great," covering Dr. Raven's leadership as a scientist and conservationist, and his achievements in transorming the Missouri Botanical Garden into a world leader in research and horticultural display. Members who missed seeing these outstanding articles may call (314) 577-5141.

Trustee Profile

Anthony F. Sansone, Sr.

ANTHONY F. SANSONE, SR. was elected to the Garden's Board of Trustees in August. He is the principal chairman and chief executive officer of The Sansone Group, a St. Louis based national brokerage, property management, and development firm.

David W. Kemper, president of the Board and chief executive of Commerce Bancshares, Inc. said, "Tony Sansone inspires many of us with his civic spirit and his commitment to many different institutions in St. Louis. We are very proud that he has accepted election to the Board of the Garden as an emeritus trustee."

Peter H. Raven said, "We are delighted that Mr. Sansone has joined the Garden family. He has made such a difference in St. Louis, and we look forward to working with him."

Mr. Sansone has served as president of the Board of Directors at Cardinal Glennon Children's Hospital, co-founded the Vitae Society, and worked closely with Archbishop Justin Rigali. In 1993, Mr. Sansone was presented with the "Order of St. Louis Kings" Award by St. Louis Bishop Edward J. O'Donnell, the highest award the Archdiocese can bestow. He was co-chair of the National Conference of Christians and Jews, and he has been named St. Louis Businessman of the Year by the Civic Italian American Organization.

Mr. Sansone grew up in St. Louis and attended St. Louis University and Washington University. He and his wife Mary Anne have eight children and 31 grandchildren.

A Salute to the Japanese Festival

TIM PARKER

THE 1999 JAPANESE FESTIVAL on Labor Day weekend welcomed more than 30,000 visitors to the Garden for a celebration of Japanese culture. Our thanks to all sponsors and organizations who contributed to making the 23rd annual Japanese Festival a success. Shown breaking the traditional sake barrel at the opening ceremony are (from left): Peter H. Raven, director of the Garden; Toshiyuki Fugiwara, Consul General of Japan at Kansas City; Shunichi Kasahara, former Mayor of Suwa, Japan, a sister city of St. Louis; and Mayor Clarence Harmon of St. Louis.

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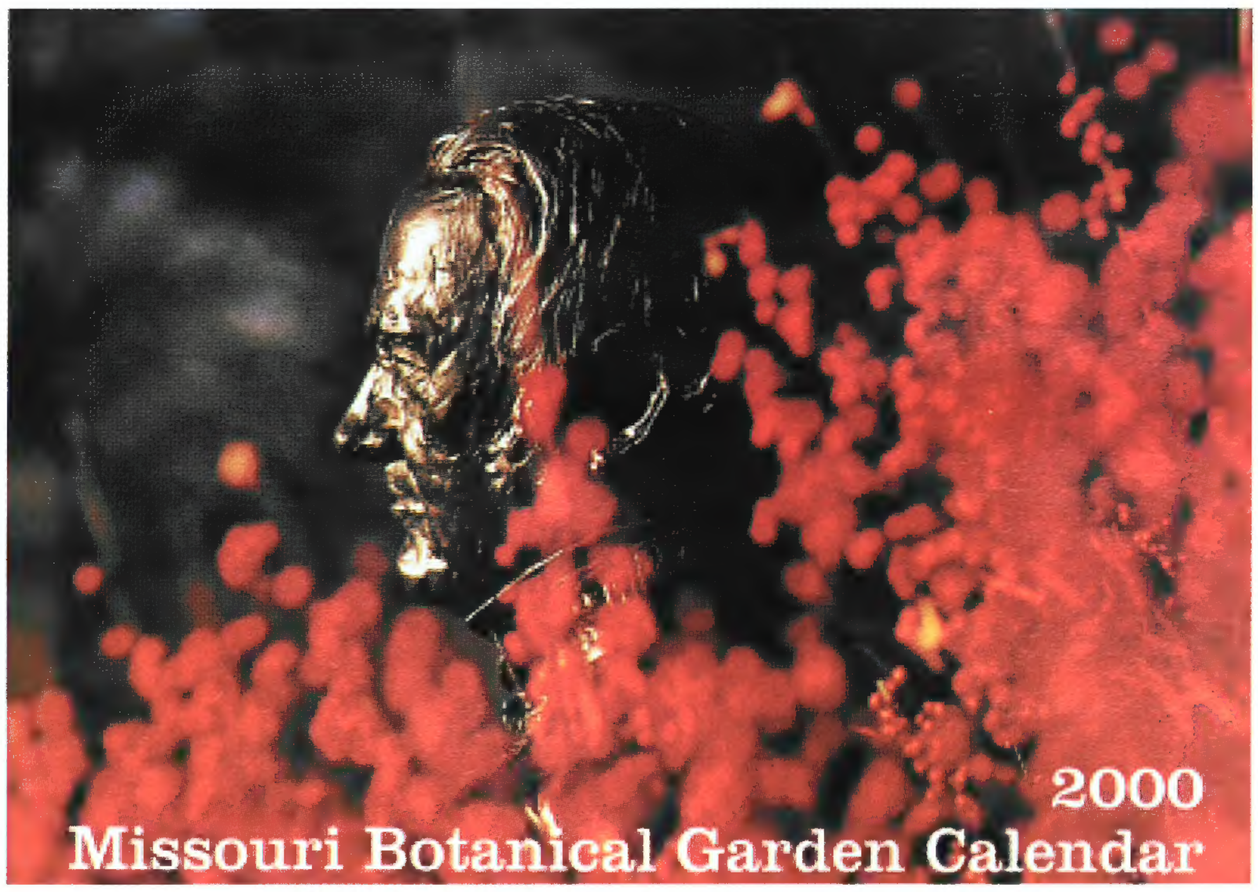
2000 MBG Calendar – 16 x 12 inches



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